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Practitioner's Docket No. 616.028

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Mark Lesswing; Dale Hoerle

For (title): **A Novel Method and Apparatus For Repricing A Reimbursement Claim Against A Contract**

**1. Type of Application/ Benefit of Prior U.S. Application (35 U.S.C. 119(e), 120, or 121)**

This transmittal is for a continuation application of provisional application Ser. No. 60/159,306 filed October 14, 1999.

**2. Papers Enclosed**

A. Required for filing date under 37 C.F.R. 1.53(b) (Regular) Application

46 Page(s) of Specification including  
-Descriptive Title  
-Cross Reference to Related Applications  
-Reference to Microfiche Appendix  
-Background of the Invention  
-Brief Summary of the Drawings  
-Detailed Description of the Drawings  
-Claims  
-Abstract of the Disclosure

35 Sheet(s) of Drawing(s)

B. Other Papers Enclosed

2 Page(s) of declaration and power of attorney

**3. Declaration or Oath**

A combined declaration and power of attorney is enclosed and executed by the above named inventors.

The PTO did not receive the following (Application Transmittal page 1 of 14)

1 item(s) Transmitted

(page 1 of 14 to 14 of 14)

**3. Inventorship Statement**

The inventorship for all the claims in this application is the same.

**5. Language**

English

**6. Assignment**

An assignment of the invention to Resource Information Management Systems, Inc. is attached. A separate FORM PTO 1595 is also attached.

**7. Fee Calculation (37 C.F.R. 1.16)**

Regular Application

**CLAIMS AS FILED**

Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$690.00
Total Claims (37 CFR 1.16(c))	59	- 20 =	39 x	\$18.00	\$702.00
Independent Claims (37 CFR 1.16(b))	5	- 3 =	2 x	\$78.00	\$156.00
Multiple Dependent Claim(s), if any (37 CFR 1.16(d))			+ \$0.00		\$0.00
Filing Fee Calculation					\$1,548.00

**8. Small Entity Statement(s)**

Statement that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is attached.

Filing Fee Calculation (50% of above) \$774.00

**9. Fee Payment Being Made at This Time**

Enclosed

Filing Fee \$774.00

Recording assignment  
(\$40.00; 37 C.F.R. 1.21(h))  
(attached COVER SHEET FOR ASSIGNMENT ACCOMPANYING  
NEW APPLICATION.) \$40.00

**Total Fees Enclosed** \$814.00

**10. Method of Payment of Fees**

Check in the amount of \$814.00 is attached.

**11. Authorization to Charge and Credit**

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 08-0425 and credit any overpayment to the same.



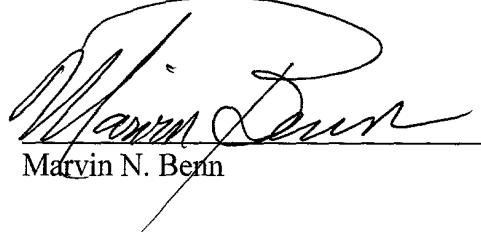
SIGNATURE OF PRACTITIONER

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aks/06160005.t23

CERTIFICATE OF MAILING

I hereby certify that "A Novel Method and Apparatus For Repricing A Reimbursement Claim Against A Contract" patent application with microfiche, Declaration/Power of Attorney, Statement Claiming Small Entity Status, an Assignment with cover sheet, a check in the amount of \$814.00 and a post card is being deposited with the United States Postal Service with sufficient postage as U.S. Express Mail No. EM507891019US addressed to Box Patent Application, Assistant Commissioner of Patents, Washington D.C. 20231 on May 23, 2000.



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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Lesswing, et al.

Title: **A NOVEL METHOD AND APPARATUS FOR REPRICING  
A REIMBURSEMENT CLAIM AGAINST A CONTRACT**

Application No.:

Filing Date:

Group Art Unit:

Examiner:

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**STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 C.F.R. §1.9(f) and §1.27(b)--SMALL BUSINESS CONCERN)**

I hereby state that I am owner and/or an official empowered to act on behalf of the small business concern identified below:

Resource Information Management Systems, Inc.  
500 Technology Drive  
PO Box 3094  
Naperville, Illinois 60566-7094

I hereby state that the above identified small business concern qualifies as a small business concern, as defined in 13 C.F.R. §121.3-18, and reproduced in 37 C.F.R. §1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third-party or parties controls or has the power to control both.

I hereby state that rights under contract or law have been conveyed to, and remain with, the small business concern identified above, with regard to the invention described in

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below and no rights to the invention are held by any person, other than the inventor, who would not qualify as a small business concern under 37 C.F.R. §1.9(d), or by any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d) or by a nonprofit organization under 37 C.F.R. §1.9(e) as a small business concern.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the

earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 C.F.R. §1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this statement is directed.

**Resource Information Management Systems, Inc.**

Name of Person

Signing: Thomas H. Heimsoth

Title of Person

Other than Owner: Chairman & Secretary

Signature: Thomas H. Heimsoth

Address of

Person Signing: 500 Technology Dr  
Naperville, IL 60563

Date: 5/19/00

aks/6160004.sm

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A NOVEL METHOD AND APPARATUS FOR  
REPRICING A REIMBURSEMENT CLAIM  
AGAINST A CONTRACT

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**Field of the Invention**

This invention relates to a computer method and apparatus for processing and modularizing software, and more particularly, to a method and system for modularizing software for repricing a reimbursement claim against a contract.

15

**Cross Reference to Related Application**

The present application is a continuation of provisional application serial number 60/159,306 filed October 14, 1999.

20

**Reference To Microfiche Appendix**

Reference is made to a Microfiche Appendix hereto, having a total of 1 microfiche and a total of 43 sheets comprising approximately 930 separate programs.

25

**Background of the Invention**

A preferred provider organization (referred to herein as "PPO") is a collection of physicians, hospitals, clinics, etc. (referred to herein as "providers") which have agreed to provide healthcare services to PPO members (such as employers, employees, and consumers, referred to herein as members) at a reduced cost. The individual providers contract with the PPO to provide specific services to the members at a shared cost. It is important to note that a single provider may belong to a number of PPOs. For instance, a cardiologist may belong to two or more hospitals, each hospital having a physician PPO with its doctors. The cardiologist may also belong to a PPO formed by a collection of cardiologists. The PPOs further contract with insurance companies, third party administrators, and employers (referred to herein as "Insurers") in order to share the allocation of risk and cost. Since Insurers can reach a broad area and range of members, the Insurers develop and group numerous PPOs to cover such a broad range.

The reimbursement of the healthcare services provided by the providers is designed about a submitted claim system built for point of service insurance. When a provider treats a member, the provider submits a claim, for the services rendered, not to the PPO but to the Insurer for reimbursement thereof. Since, as mentioned above, a single provider contracts with numerous PPOs (with separate contractual arrangements for each), and the PPOs then contract with the Insurer, the Insurer must review all governing contracts to determine the proper amount of the reimbursement.

By way of example, a typical claim may include services from multiple doctors for various services performed. For instance, a claim may include services from a Radiologist for \$1,000, an Emergency physician for \$2,000, and an Anesthesiologist for \$3,000. Each physician may have a contract with the PPO or Insurer to pay 100% of their services under \$3000, but the hospital may also have a contract with the PPO stating that submitted claims in excess of \$5000 for a single patient will be repriced at 85% of the charges. If the Insurer reimburses the claim as is, the Insurer has overpaid. Alternatively, if the Insurer reprocesses the claim under the governing contracts and reduces the reimbursements proportionally to each physician (known as “repricing”), the physicians may disagree with the proportionality or the repricing and appeal their reimbursement amount. In order to avoid such repricing by the Insurer, physicians may unbundle the claim into three claims, and submit the three claims separately. The separately submitted claims each receive the total amount of their reimbursement but the Insurer has overpaid.

Since, Insurers may have tens of thousands of separate contracts covering hundreds of thousands of individual providers the ability to review all governing contracts for every submitted claim is extremely time consuming. If the Insurer, however, pays all submitted claims as is, the Insurer will be overpaying. To compensate with overpaying claims Insurers may spot check claims or check every claim. When, however, the Insurer begins accurately checking all claims, reimbursement is significantly delayed. In response to Insurer's delaying reimbursements, laws have been enacted that require Insurers to reimburse claims within a specific period or pay a penalty. As such, Insurers may intentionally short each reimbursement, regardless of any governing contracts.

Prior systems or software, which managed contracts, typically viewed the contracts as linear single tier contracts. Each contract was independent of all other contracts. Moreover, if a contract was outdated, replaced or no longer in effect (or if a term within the contract was replaced or no longer in effect) a new contract would be developed from a contract template. The new contract would be added to the end of the outdated contract, providing the Insurer with a long linear list of contracts, some of which were no longer in effect. In order to determine which contract governed a claim or claim line the Insurer would have to review all contracts, determine which terms governed, the priority of the governing terms and determine if subsequent contracts governed over prior ones. As multi-tiered contracts developed, i.e. one tier governing the provider and the PPO and a second tier governing the PPO and the Insurer, the systems similarly bundled the two contracts end-to-end, into a single tier contract, effectuating the same problems. Since providers now belong to numerous PPOs, numerous contracts are created and the ability to update and manage these contracts has now become extremely difficult. When two or three multi-tiered contracts are bundled into single linear contracts, there is no interaction between the multi-tiered contracts. Consequently, if a provider changed information in one contract, the information would have to be changed throughout all governing contracts or an entirely new contract would have to be created.

As such a need exists for a method and apparatus, which provide the ability to organize, maintain and modify these contracts between the Insurers, the PPOs and the providers. The method and apparatus should be able to create contracts, store generally information globally apart from the terms, such that other contracts and/or claims may share the information. This information which when changed or edited will then be changed throughout each contract or claim. Moreover, since all contracts are governed by pre-defined industry standards, the contracts may now be organized and processed to provide the method and apparatus with the ability to determine which contracts and terms govern a claim, without having to manually search through each contract.

As such, a need also exists to provide the Insurers and PPOs with the ability to determine the correct reimbursement for claims based upon these governing contracts and terms. Moreover, a need exists to provide adequate reasons, based upon

these governing contracts, as to why claims were reprocessed. Moreover, the ability to control the data integrity of the contracts and claims is significantly increased. Modifications to contracts are easy and globally done. Additionally, the need exists for a centralized database to maintain and manage the contracts. The ability to electronically submit claims and have the claims repriced through the database would greatly decrease delays in reprocessing. The PPO or Provider electronically submitting the claim would receive immediately (approximately) the amount of the reimbursement, and the reasons why the claim was repriced.

## 10 Summary of the Invention

In accordance with the present invention a method and apparatus provides for the repricing of reimbursement claims against contracts. In an embodiment of the present invention, a method for repricing a reimbursement claim under at least one contract includes converting each contract into a series of contractual terms and converting the claim into a series of claim lines. The method then sequentially compares each claim line against each contractual term of a contract. When a claim line satisfies a contractual term, the method identifies the contractual term as a matching contractual term associated to the claim line. Upon identifying all matching contractual terms, the method will determine any priority conditions associated to the matching contractual terms, and eliminate any matching contractual terms that are excluded by such priority conditions. The method then calculates the reimbursement amount for the claim by determining the reimbursement charges for the non-excluded matching contractual terms. The method may then determine and make any adjustments depending upon any discounts or stop losses for the entire reimbursement amount.

In other embodiments, the method would store the reimbursement amount and the repriced claim in a storage location. A second claim being repriced would be compared to other repriced claims to determine if the claims are identical or whether the claims were unbundled from a single claim. If the claims were unbundled, the method would bundle the claims and reprice the bundled claim, replacing any reimbursement amounts for the unbundled claims.

Other embodiments provide for the contracts to be stored within a data center, on a network. The data center stores a plurality of networks, each containing a plurality of contracts. The contracts having specific identifying codes allow the contracts to be sorted in specific networks. The reimbursement claims also containing identifier codes identify which network the claim will be repriced against. Once the network is located the method determines which contract(s), within the network, governs over the claim. The method would then reprice the claim against the governing contracts. Default settings, or user-defined settings could select the highest or lowest reimbursement value from the governing contracts.

Numerous other advantages and features of the invention will become readily apparent from the following detailed description of the invention and the embodiments thereof, from the claims, and from the accompanying drawings.

#### **Brief Description of the Drawings**

A fuller understanding of the foregoing may be had by reference to the accompanying drawings, wherein:

Figure 1 is an example of an Administration Window for managing, creating, and maintaining rate sheets;

Figure 2 is an example of a Providers window for creating and maintaining information in relation to all of the providers of the rate sheets and reimbursement claims;

Figure 3 is an example of a default window for the rate sheets;

Figure 4 is an example of the calculation categories window with the category Per Diems highlighted;

Figure 5 is an example of a claim window used for managing and maintaining the reimbursement claims;

Figure 6a is the top portion of an example of a claim form window used for creating a new reimbursement claim;

Figure 6b and 6c are the bottom portions of Figure 6a;

Figure 7 is an example of a completed claim form;

Figure 8 is a block diagram illustrating the inter-relationship between containers, contexts and beans created by the reimbursement platform and the contracts platform in accordance with the present invention;

5 Figure 9 is an example of a provider contract used to create a rate sheet with the contract platform;

Figure 10A is an example of a Rate Sheet window used to maintain and create the rate sheets;

Figure 10B is an example of the Create Rate Sheet window, which is brought about when a user begins to add a new rate sheet;

10 Figure 10C is an example of the Create Rate Sheet window of Figure 10B when the user has selected the sections, which correspond to the terms of the contract;

Figure 11 is an example of the Rate Sheet window showing the rate sheet of Figure 10B prior to adding any terms of the rate sheet;

15 Figure 12 is an example of the Rate Sheet Terms window used to add and edit the terms of the rate sheet;

Figure 12a is an example of the qualifications box, which is part of the Rate Sheet Terms window of Figure 12, used to determine the specific codes within a code range that the term will qualify under;

20 Figure 12b is an example of the qualifications box of Figure 12, illustrating a few of the different types of pre-defined code groups that are available;

Figure 13a is an example of the Rate Sheet Terms window containing information needed to create the Per Diem – Medical term of the contract from Figure 9;

25 Figure 13b is an example of the Rate Sheet Terms window containing information needed to create the Per Diem – Surgical term of the contract from Figure 9;

Figure 13c is an example of the Rate Sheet window with the terms Per Diem Medical and Surgical added.

Figures 14-18 are examples of the Rate Sheet Terms window, each Figure containing information to create a term of the contract from Figure 9;

30 Figures 19A & 19B are the top and bottom screens from the Rate Sheet window containing all of the terms from the contract of Figure 9;

Figure 20 is a hardcopy representation of Figures 19A & 19B;

5 Figure 21 is a block diagram illustrating a Rate Sheet and a Claim;

10 Figure 22 is a flow diagram illustrating the processing flow used to organize the pre-defined sections;

15 Figure 23 is a flow diagram illustrating a sub-processing flow used to reprice a claim;

20 Figure 24 is a repricing worksheet window displaying information in relation to the repricing of the claim illustrated in Figure 7 against the rate sheet illustrated in Figure 20;

25 Figures 25a and 25b are split screen window depicted a second claim;

30 Figure 26 is a repricing worksheet window displaying information in relation to the repricing of the claim illustrated in Figures 25a and 25b against the rate sheet illustrated in Figure 20; and

35 Figure 27 is a block diagram illustrating an embodiment managing and maintain various networks on a data center that contain rate sheets for repricing claims.

#### **Detailed Description of the Drawings**

40 While the invention is susceptible to embodiments in many different forms, there are shown in the drawings and will be described herein, in detail, the preferred embodiments of the present invention. It should be understood, however, that the present disclosure is to be considered an exemplification of the principles of the invention and is not intended to limit the spirit or scope of the invention and/or claims of the embodiments illustrated.

#### **A. Overview**

45 Medical contracts entered between PPOs, Providers and Insurers, and reimbursement claims, submitted by the PPOs or Provider to the Insurers, utilize standards driven and created by the industry in order to maintain a single continuity throughout the industry. Typically, an Insurer receiving a reimbursement claim would manually reprice or reprocess the claim. Contracts and claims maintained and stored by systems, in the prior art, were done simply to store the information, not to actually reprice or reprocess the claim. The standards, discussed in greater detail below, allow for the

5 contracts and claims to be broken or torn down into standard pre-defined, as well as user defined, contract terms and claim lines. Once broken down, these contract terms may be organized and sorted to provide a repricing flow, which can be applied to virtually all-medical contracts. The claim lines may now be “bounced” against governing contracts to determine the proper amount of the reimbursement.

10 In the preferred embodiment, an input and output device, such as a mouse, for “clicking” or selecting graphic elements as well as a keyboard for inputting and editing, are used to manage and maintain the contracts and reimbursement claims. The system using a contract platform, such as Resource Information Management Systems Inc.’s NetworX™ Administration software, provides a user with the means to create and manage contracts. The contract platform may be separate and apart from a platform used to create, manage and reprocess reimbursement claims, referred to herein as a reimbursement platform. The reimbursement platform, such as Resource Information Management Systems Inc.’s Manual Claim Entry 1.2.6.1 software, allows the Insurer to create reimbursement claims and reprice the claims by bouncing the claims against the contracts managed by the NetworX™ Administration software. The two platforms while preferably separate platforms may be combined into a single platform.

15 20 25 30 The reimbursement platform preferably permits the Insurer to manually create or enter the reimbursement claims and designed to accept the reimbursement claims through various communication mediums. Reimbursement claims received through various communication mediums, such as digital or electronic transfers, would speed up the reprocessing of the claims.

30 Preferably the contract terms and claim lines are gathered, by the above mentioned platforms, and stored individually as specific types of beans, discussed in greater detail below. The platforms are created using reusable software components, which can be used with a software development environment. Software development environments can integrate visual and source views of the components through use of certain features such as, for example, drag-and-drop. The drag-and-drop feature allows a software developer to modify the property values associated with the graphic user interface or “GUI” component while simultaneously viewing the modifications to provide the user with a type of virtual processing. The virtual processing pattern removes the

dependence between components, because components at all levels have very little interdependence between inner components. It makes the systems easier to modify and upgrade, such that individual components may be replaced rather than replacing entire products. These components may be downloaded and installed using standard Internet technologies.

Illustration figures used throughout represent a general overview of the graphical user interface for the windows and features used by the contract platform and the reimbursement platform. The illustrations used throughout are for example only and are not used to limit or restrict the scope of the claims or the invention.

#### B. Contracts Platform

The contract platform, as mentioned above, provides the ability to create, maintain and manage contracts (also referred to herein as "rate sheets") between the PPOs, Providers, and Insurers. Each rate sheet includes terms, created and stored independently of each other, providing the means to edit and change the terms separately. Moreover, data shared by both the contract platform and the reimbursement platform, for instance, provider or PPO identification data, is stored globally separately from the two platforms, permitting access to such data from either platform. This provides a dynamic inter-relationship among the platforms and the data maintained and managed by both of the platforms.

Figure 1 illustrates an example of a Main Administration screen 10, which permits the user to build, manage, code, route and maintain the rate sheets. Various tabs 12 are included to help assist the user accomplish these aforementioned functions and are listed across the top of the Main Administration screen 10. The tabs 12 further permit the user to access the pre-loaded industry standards, mentioned above, and to sort, group, and define new standards. These tabs 12, discussed in greater detail below, include, but are not limited to, Roles 12a, Users 12b, Providers 12c, RateSheets 12d, Calculation Categories 12e, Code Groups 12f, Routing Rules 12g, and Mailboxes 12h.

The Roles tab 12a allows a user to define and manage security access levels for various groups of personnel employed by the user. An Insurer using the platform may have numerous personnel groups that separately access, maintain, edit and

enter the information stored by the platforms. The Roles tab 12a allows the Insurer to define the level of access for each group. For example, since contract data entry personnel typically only need access to read/write/delete information regarding rate sheets on the contract platform, access to the reimbursement platform would be restricted.

5 The Roles tab 12a, for security reasons, would typically only be available for a platform administrator. The platform administrator would define the level of access utilizing the Roles tab 12a and assign individual security logins and passwords to each personnel, using the Users tab 12b.

10 The Providers tab 12c allows the user to manage information on each Provider. Illustrated in Figure 2, a Provider window 20 permits the user to enter identifying data such as the Provider's tax id, address, zip, a user defined provider code and aliases.

15 When selecting the RateSheets tab 12d, shown in Figure 1, a rate sheet window 30 opens, illustrated in Figure 3. The rate sheet window 30 permits the user to create and manage the rate sheets. The bottom of the window contains a series of tools that provide the user with the ability to create and manage rate sheets and terms. The tools used for maintaining and creating rate sheets are Add Sheet 32a, Change Sheet 32b, Delete Sheet 32c and Cop Sheet 32d. While additional tools are used for maintaining and creating the terms of each rate sheet, such as Add Item 32e (or add term), Change Item 32f, Delete Item 32g and Copy Item 32h.

20 The Calculation Categories tab 12e opens a category window 40 and a calculation window 45, illustrated in Figure 4. The calculation and category windows permit the user to organize and select repricing calculations for use under each category. Initially each category contains a list of pre-defined repricing calculations, which are used when creating rate terms. The user however, may further define under each category specific calculations that will be available for use when creating or editing the terms. For instance, if each rate sheet created for an Insurer only includes single level per diem calculations then the per diem category can be adjusted, using the calculation and category windows, to only allow for this calculation. As such, when entering new per diem contract terms, the only calculation available would be the single level per diem.

The Code Groups tab 12f, provides the user with the ability to maintain groupings of qualifying pre-defined codes. When entering in a rate sheet, each contract term is defined under a sub-section headings, for instance, Medical and ICU/CCU/NICU. Code grouping permits the user to define which codes qualify for repricing under these sub-sections. For example, when using revenue codes, the industry has determined that revenue codes 120-123 define procedures under a Medical sub-section, while the revenue codes 174, and 200-219 define procedures under the ICU/CCU/NICU sub-section. The pre-defined codes include age, ICD9 procedure and diagnosis codes, DRG codes, CPT-4 codes, revenue codes, and Provider groups (such as Surgeon, Assistant Surgeon, and Anesthesiologist). Under the code groups tab 12f the pre-defined code groups may be adjusted or new groups may be created to cover specific terms in a rate sheet.

The Routing Rules tab 12g is used to establish which mailbox, created using the Mailbox tab 12h, the reimbursement claims are routed to. For instance, after a data entry personnel enters claims into the reimbursement platform, the system may save the entered claim and route the claim, using defined routing rules, to a repricing mailbox. A second personnel may thereafter, open the repricing mailbox, retrieve the claim and reprice the claim.

### C. Claim Reimbursement Platform

As mentioned above, the claim reimbursement platform is used to manage and maintain the claims. The user may create, edit and reprice the claims against the rate sheets utilizing the tools provided by the reimbursement platform. As illustrated in Figure 5 a graphic representation of the reimbursement platform is shown in a claim window 50. A toolbox 52 located along the top of the claim window 50 contains various tools, graphically represented. The tools include, but are not limited to the following, Creating New Claims 52a, Repricing Claims 52b, Route Claims 52c, and Display Repricing Details 52d. Similar to the Routing Rules tab 14g, the Insurer may route the claims to various predefined groups or mailboxes (created under the mailbox tab 12g) by using the Route Claims tool 52c.

Illustrated in Figures 6a, 6b and 6c, when a new claim is to be created a new claim form window 60 is opened. Using the input devices mentioned above, a user

5 enters in a claim, to be repriced. Figure 7 illustrates a claim 70 that has been created and saved in the system and is awaiting to be repriced. As illustrated the claim contains several claim lines, rows 72a, 72b, 72c, 72d. Listed in each row are specific revenue codes, column 74a, general descriptions of the codes, column 74b, the number of units of each code, column 74c, and the total charges, column 74d, and etc.

10 As mentioned above, since information is stored as beans, the information is easily shared and used by both platforms. As such, the provider beans used by the contract platform may be used and linked to claims created on the reimbursement platform, such as the information identifying a provider entered in boxes 76a-76e, Figure 15 7. By way of example and as illustrated in Figure 8, a completed contract, between Provider X and the Insurer, may be stored on the system as a RateSheet context 80. Contained within the RateSheet context 80 may be a provider container 82 identifying the provider of the RateSheet as X provider. Also included within the RateSheet context 80 are term containers 84a...84n representing n terms of the contract. The RateSheet context 80, as well as the other containers within, includes logic 85 and 86a...n that links to the other contexts and/or beans contained within or stored globally, logic link 88.

20 While the information identifying X provider (i.e., Provider Code, zip, city, state, address, etc.) may be stored in the provider container 82 of RateSheet context 80, it is preferably stored in a Provider context 90. The provider context 90 has stored within containers corresponding to the providers, represented as container 92a corresponding to A provider; container 92b corresponding to B provider;...; container 25 92x corresponding to the X provider;...; 92n container corresponding to n provider; each container housing identifying beans that represent the provider's information. Closely examining the container 92x, which stores identifying information in relation to the X provider, the container includes identifying beans 94a...94n. Each identifying bean represents a single piece of information regarding the X provider, for instance, bean 94a may represent X provider's zip code. As with the RateSheet context 80, the provider context includes logic links 96a...96n to the provider containers stored within.

30 Also illustrated in Figure 8, is three claim contexts, a first, second and third, 100, 110 and 120 respectively. The first and second claim contexts 100 and 110 represent claims submitted by the X provider and the third claim context 120 represents a

claim submitted by A provider. As illustrated the first claim context 100 includes a provider container 102, identifying X provider, and 2 claim containers 104a and 104b, which store information in relation to the claim lines; the second claim context 110 has a provider context 112, identifying X provider, and includes 3 claim containers 114a, 114b and 114c; the third claim context 120 has a provider container 122, identifying A provider, and a claim container 124a. Moreover, each claim context contains links 106, 116, 126 to the provider context 90, respectively. Since the provider information is stored within provider context 90, when the information is changed, each context that is linked thereto is automatically updated. Therefore, if the zip code, bean 94a, of X provider is changed while entering the second claim 110, the provider container 102 of the first claim context 100 and the provider container 82 of the RateSheet context 80 is automatically updated.

This permits multi-level interaction between contracts and reimbursement claims. Tens of thousands of contracts relating to hundreds of thousands of PPOs may be managed and organized within seconds, instead for hours. Moreover, and as described in greater detail below, the reimbursements claims may be bounced off of all of the stored contracts, to determine all governing contracts more quickly and more efficiently than prior systems.

#### 20 D. Rate Sheet or Contract Creation Example

In this example, a simple Provider Contract 140, as shown in Figure 9, is converted to a “Completed Rate Sheet” 200, shown as split screens in Figures 19a and 19b. As shown in Figure 9 the Provider Contract 150 between a Medical Center and an Insurer for medical reimbursement claims contains various terms. As provided, the Provider Contract 150 defines the following terms: Medical per diem cost at \$750.00; Surgical per diem cost at \$950.00; Normal Delivery at \$1,400.00 for 1-2 day stay case rate with an additional \$450.00 charge for each additional day; Cesarean Section at \$2,800.00 for 1-2 day stay case rate and \$500.00 for each additional day; all other covered Inpatient Services and all Outpatient Services will be discounted at 15% from billed charges; and a Stop Loss for any case in which charges exceed \$20,000 the Medical Center will be paid 85% of the total billed charges.

As mentioned above, the contract is broken down into its terms and stored as term contexts (as in Figure 8). Each term context includes qualification, calculation, and priority beans. For example, the first term “Medical per diem cost at \$750.00,” includes qualification contexts which include qualification beans to the code grouping ‘medical’; and the category or section ‘Per Diem’. A calculation context would include beans to a ‘single level calculation’, and would be associated to the calculation bean of “\$750.00.” Additional information regarding priority conditions of this term in relation to other terms in the rate sheet is stored in the priority beans.

## 10 1. Creating a New Rate Sheet

Before repricing a reimbursement claim, a user must create a rate sheet. A Rate Sheet 200, such as shown in Figures 19a and 19b, was created using the contract platform, mentioned above, and using as a template the Provider contract 140, from Figure 9.

15 To create the Rate Sheet 200 a user begins by clicking the RateSheets tab 12d on the Main Administration screen 10, shown in Figure 1, which opens the rate sheet window 30, illustrated in Figure 3. The user then selects the Add Sheet 32a tool, which 20 opens a Create Rate Sheet window 150, illustrated in Figure 10a. Information regarding the provider and the contract is entered in this screen. For instance, a rate sheet code specifically associated to a rate sheet is entered in a code box 152. This permits the user to recall specific rate sheets quickly and more efficiently. The identification or name of the provider is entered in the Rate Sheet Description box 154 and the effective dates of the contract may be entered in the date boxes 155a and 155b. Moreover, if this rate sheet 25 is a subset of another rate sheet the user may select the sub-rate sheet box 156.

25 In the preferred embodiment, the terms of the rate sheet are organized or listed under pre-defined sections. These sections include Outpatient Exclusions, Outpatient Per Diem, Outpatient Case Rates, Outpatient Services, Outpatient Stop Loss, Per Diem, Case Rate, Exclusion, Inpatient Services, Stop Loss and Professional/Other Services and are listed in an available sections box 158a. Moreover, since the contractual 30 terms categorize within pre-defined sections, a flow process in which reimbursement claims can be processed and repriced may be developed, discussed in further detail

below. When a rate sheet contains a term categorized under a pre-defined section, that pre-defined section is selected and added to the selected sections box 158b. When all of the pre-defined sections are selected, the OK button 159 is depressed. As illustrated in Figure 10b, the user adds to the selected sections box 158b the Per Diem, Case Rate, Outpatient Services and Stop Loss sections, which correspond to the terms in the Provider Contract 140.

Once the OK button 159 is depressed, a rate sheet window 160 opens illustrated in Figure 11. The rate sheet window 160 separates into a title box 162, an outline box 164 and the rate sheet box 166. The title box 162 lists the rate sheet code, the dates in which the rate sheet is valid through and contains a rate sheet search button 168. The rate sheet search button 168 permits the user to search and locate a different rate sheet. The rate sheet box 166 graphically represents the rate sheet as entered and stored by the contract platform, as well as lists the footnotes, discussed in greater detail below. As illustrated, no terms are listed under the sections since the terms have not yet been entered. The outline box 164 only lists the section and subsection headings listed in the rate sheet box 166.

## 2. Creating Terms

The user may now begin to enter in the terms of the contract. When no terms exist, as illustrated in Figure 11, the user may highlight one of the pre-defined sections, in either the outline box 164 or the rate sheet box 166, and click the Add Item button 152e. If, however, a section contains terms, and a new term is to be added, the user would highlight the term, in which the new term is to follow, and then click the Add Item button 152e. This opens a Rate Sheet Terms window 170, illustrated in Figure 12. The Rate Sheet Terms window 170 has four sub-windows a description window 172, a qualifications window 174, a calculation window 176 and a lower window 178.

The description window 172 assists the user in defining the term. The description of the term or heading is entered in description box 172b and the effective dates of the term, which may be different then the contract, may be entered into date boxes 172c and 172d. Included within the description window 172 is also a heading box 172a, which is selected when the description, in description box 172b, is a note to clarify the term or condition.

The qualification window 174 permits the user to select the type of codes associated to the term and the value of the codes. As mentioned above, the pre-defined codes types, selected from code type pull down menu 174c includes, for example, ICD9 procedure and diagnosis codes, DRG codes, CPT-4 codes, revenue codes, etc. When using a specific range of codes, the code value box 174a is selected. The user then enters in a range of code values in the value range boxes 175a and 175b, illustrated in Figure 12a. When, however, the code grouping box 176 is selected, the user selects the code group from a pre-defined group of codes from a drop-down menu 177, illustrated in Figure 12b.

The calculation window 176, Figure 12, allows the user to select which calculation to use for repricing a claim or claim line, when that claim line satisfies the criteria defined in the qualification box 174. The user may select from any calculation listed under the various categories defined in the calculation box 176. As mentioned above, the calculations available may be limited under the calculation categories tab 12e, illustrated in Figure 4. The calculation window 176 also includes a complete box 176b. When a term is a final repricing within a section then the user may select the complete box 176b. This prevents the repricing of a qualifying claim line under another term within that section, however, it does not prevent the repricing of the qualifying claim line under another section. If the complete box 176b is unchecked, the system will continue to search through the rest of the terms within the section and may reprice the claim using a different term.

Preferably, the amounts, days and percentages of each calculation are user-defined in order to customize the calculation for each term. For example, a surgical single level per diem charge in a rate sheet may include: "a surgical charge of \$950 a day." In this instance, only the amount of the charge is modifiable. To change this term to for instance, "a surgical charge of \$950 for the first 2 days and \$500 thereafter" the category must be changed to a 2 level per diem charge. The pre-loaded categories include, but are not limited to, allowed, maximum allowed, cost, percentage, discount, per diem, unit, case rate, DRG (diagnosis related groups), reasonable and customary, schedule, stop loss and no calculations.

Illustrated in Figure 13a and in accordance with the Provider contract 140 the first term, “Medical Per Diem repriced at \$750.00 a day,” has been entered. As illustrated, the description window 182 contains information in relation to the term. The description box 182a contains the term “Medical” and within the date boxes 182b and 182c are effective dates. The qualifications window 184 indicates that this term uses code grouping by selecting the code grouping box 184a. The type of codes selected in the code type box 184c is revenue codes with the pre-defined code group being “Per-Diem – Medical,” defined in the code group pull down menu 184b. The calculation window 186 indicates that the calculation assigned to this term is a single level per diem calculation. Upon selecting a calculation from the calculation window 186 the system generates and displays each calculation as an English language paragraph in the lower window 188 with a series of calculation boxes 188a interspersed in the paragraph. The user enters in a price of “\$750.00” in the per diem calculation box 188a. Lastly, the user defines the priority of this term in comparison to other terms defined under the Per Diem section. This is accomplished by selecting a pair of priority notes, or footnotes, from the footnote pull down windows 189a and 189b, discussed in further detail below.

When the term is complete, the user clicks the OK button 190. The system will then convert the entered information into beans and store the beans in a container. As illustrated in Figure 9, the container may be stored in a rate sheet context, which contains a plurality of containers, each storing information in relation to a specific term. This permits the user to change, edit, add and delete terms without having to retype or recreate a new rate sheet, only the specific bean or container has to be changed.

Referring now to Figure 13b, the second term “Surgical at \$950.00 a day” from the Provider contract 140 is entered in rate sheet term window 190. As in the Medical term Figure 13a, the Surgical term uses revenue codes, in code type box 192a and the pre-defined code group “Per-Diem – Surgical” defined in the code group pull down menu 192b. In this instance the revenue codes overlap, the pre-defined revenue codes for both Per-Diem Medical and Surgical terms include the codes 110-113 and 120-123. During the repricing process, claims with a revenue code of 111 for example, will qualify for both the Medical and Surgical terms. Since the Surgical term is listed last in the Per-Diem section all claims with overlapping revenue codes reprice at the Surgical

rate of “\$950.00”, defined in calculation box 192c. One way to differentiate a surgical service from medical care is by the presence of an ICD9 procedure code on the claim. To build the Surgical term with both the revenue code and an ICD9 procedure code is to add a substrate sheet marked in a substrate sheets box 194. The substrate sheet allows for the creation of more than one qualifier, e.g. a revenue code qualifier and an ICD9 procedure code qualifier. During the repricing process, all claims with an overlapping revenue code and no ICD9 procedure code reprice with the Medical term, while all claims with an overlapping revenue code and an ICD9 procedure code reprice with the Surgical term. As illustrated in Figure 13c, the rate sheet window 195 now contains the two subsections, Medical and Surgical under the section Per Diem. The system, using the beans entered from the rate sheet term window, generates and displays each term as a paragraph.

Illustrated in Figures 14-18 the remaining terms are entered into the Rate Sheet. As shown, the system generates and displays in the lower window different paragraphs depending upon the calculations chosen in the calculation window. For instance, in specific reference to Figure 14, when the calculation “Case Rate plus Per Diem, Limited by Charge” was selected, corresponding calculation boxes, 197a, 197b, 197c and 197d become available to the user. Similarly, this is illustrated in Figures 15-18. As shown in Figures 19a and 19b the completed Rate Sheet 200 shows each section with subsections defining the terms of the Provider contract 140. Similarly, illustrated in Figure 20, the completed Rate Sheet 200 is displayed as a hardcopy printout.

#### E. Priority Footnotes

As mentioned above, each term has a pair of corresponding footnotes or priority notes, shown in Figure 20. The footnotes associate the priority of a term within a section only, and not the entire rate sheet. Moreover, each term includes at least two priority notes, one priority note is included from a first set and a second priority note is included from a second set. The first set of priority notes includes: (1) this calculation will be used to reprice the entire claim; (2) this calculation will be used to reprice the current line (or claim term) and (3) this calculation will be used to reprice the matching line as a group. The second set of priority notes includes: (4) when the claim qualifies for more than one term, this price will be used if it is the smallest amount; (5) when the claim

5 qualifies for more than one term, this price will be used if it is the largest amount; and (6) when the claim qualifies for more than one term, this price will be used if it is the last term to qualify. Moreover, if the complete box 176b illustrated in Figure 12 is selected a seventh priority note is attached to the term, (7) no more terms will be examined for this

claim/line if it qualifies under these terms.

10 The first set of priority notes, relating to (1), (2) and (3) listed above define how a calculation in the rate sheet 220 will be applied to the claim 210. The first priority note states that if a contractual term applies to a claim line, then the corresponding calculation will be used against the entire claim not just the claim line. For instance, Per Diem and Case Rate Sections will typically reprice the entire claim because all claim lines or services listed in a claim will be in relation to the per diem or case rate procedure. The second priority note “this calculation will be used to reprice the current line” reprices only claim lines that have specific code values that match the codes defined under the qualifications. Under this priority note, the calculation container associated to a qualifying or matching contractual term would apply to the matching claim line only. For example, when a claim contains only various inpatient services, only the qualifying claim lines will be subject to repricing under an inpatient service section, the other non-qualifying claim lines will not be repriced. The third priority note “this calculation will be used to reprice the claim line as a group” will apply a calculation to a group of claim lines. When a claim line qualifies under a term that includes the third priority note, the repricing engine continues to check other claim lines. If the repricing engine matches additional claim lines under the same term, the claim lines are grouped together and repriced one under the term’s associated calculation.

15 20 25 30 The second set of priority notes, (4), (5) and (6) define the priority of the terms within each pre-defined section. Under each priority note, the repricing engine will determine whether a claim line qualifies under more than one term listed under a section. When a claim line qualifies under a term listed in a section, the repricing engine automatically checks the other terms listed in the section. When the claim line qualifies under one than one term, the repricing engine will, according to the (4) and (5) priority notes, calculate a reimbursement amount for each matching or qualifying term. When a matching term includes the fourth priority note “...this price will be used if it is the

smallest amount,” the repricing engine begins to compare the reimbursement amount for each matching term. The repricing engine then will reprice the entire claim, claim line or group of lines (depending upon the first set of priority notes) under the term with the fourth priority note when the reimbursement amount for this term is the smallest amount when compared to the other reimbursement amounts. Similarly, the repricing engine will reprice under a term associated to the fifth priority note “...this price will be used if it is the largest amount,” when the reimbursement amount for this term is the largest amount when compared to the other reimbursement amounts. If a matching term is associated to the sixth priority note “...this price will be used if it is the last term to qualify,” the repricing engine does not need to calculate the reimbursement amounts for each qualifying or matching term. The repricing engine only needs to determine which matching term is the last term in the section and then determine the reimbursement amount for such last term.

As mentioned above, the seventh priority note “no more terms will be examined for this claim/line if it qualifies under these terms” is assigned to terms in which the complete box 176b illustrated in Figure 12 is selected. As such, when a claim line applies under a term with a seventh priority note associated therewith, the repricing engine does not have to search other terms in the section to determine if any more within the section apply.

#### F. Repricing against the Priority Notes

For further explanation of the priority notes, reference is made to Figure 21, a claim context 210 created using the reimbursement platform has four claim lines 212, 214, 216 and 218 respectively. Each claim line contains claim beans storing information in relation to the claim line, for instance, the revenue code, bean 212a, the number of units 212b, the submitted charge 212c, etc. Moreover, a RateSheet 220 associated to the Rate Sheet 200, illustrated in Figure 20 contains five sections a first section 222, a second section 224, a third section 226, a fourth section 228 and a fifth section 229. The first section 222 (corresponding to the Inpatient Per Diem section in Rate Sheet 200) contains a 1<sup>st</sup> term context 222a (corresponding to the Medical term) and a 2<sup>nd</sup> term context 222b (corresponding to the Surgical term). The second section 224

(corresponding to the Inpatient Case Rate section) contains a 3<sup>rd</sup> term context 224a (Normal Delivery term) and a 4<sup>th</sup> term context 224b (C-section term). The third section 226 (Inpatient Services section) contains a 5<sup>th</sup> term context 226a (All Other Inpatient Services term). The fourth section 228 (Outpatient Services section) contains a 6<sup>th</sup> term context 228a (All Other Outpatient Services term) and the fifth section 229 (Stop Loss section) contains a 7<sup>th</sup> term context 229a (Stop Loss term). Moreover, each term context contains a plurality of containers that store a plurality of beans relating to the description, qualification, priority and calculations of the term. For example, the 1<sup>st</sup> term context 222a has a plurality of containers, a description container 230, a qualification container 232, a category container 234, a calculation container 236, a plurality container 238, as well as a hierarchy container 240. Each container may also store a plurality of beans; for instance, the description container 230 may have three beans, a heading bean 230a and two date beans 230b and 230c. As mentioned above, each container and each bean may be accessed and changed independent of the other containers and beans.

As illustrated in Figure 20 and in correlation to Figure 21, the second section 224 (Inpatient Case Rate section) includes the 3<sup>rd</sup> and 4<sup>th</sup> terms 224a and 224b respectively (corresponding to the Normal Delivery term and the C-section term respectively). Each term contains a plurality container with the second and sixth priority notes. As such when repricing for instance the claim context 210 against the RateSheet 220 the repricing engine begins to compare each claim line against each term. If the line one 212 qualifies under the 3<sup>rd</sup> term 224a then because the 3<sup>rd</sup> term includes the sixth priority note the repricing engine will continue to check the 4<sup>th</sup> term 224b, to determine if the 4<sup>th</sup> term also matches. If the 4<sup>th</sup> term 224b does match then the repricing engine will reprice the entire claim context 210 under the 4<sup>th</sup> term 224b because the 4<sup>th</sup> term includes the first priority note "...used to reprice the entire claim." If the 4<sup>th</sup> term 224b does not match then the repricing engine will reprice the entire claim context 210 under the 3<sup>rd</sup> term 224b, because the 3<sup>rd</sup> term includes the first priority note. Similarly, if while repricing claim context 210, claim line one 212 matches the 5<sup>th</sup> term 226a (All other Outpatient Services term), the repricing engine will reprice only line one 212, because the 5<sup>th</sup> term 226a includes the second priority note "...used to reprice the current line.) The repricing engine however, will continue to compare the other claim lines to determine if

the other claim lines qualify under another term. As such, if line two 214 qualified under the 4<sup>th</sup> term 224b, the repricing engine would reprice the entire claim and reprice the reimbursement amount for line one 212 with the reimbursement amount for the entire claim.

5

#### G. Claim Repricing against RateSheets

In order to ensure that each claim is processed uniformly under any given rate sheet the contract platform attaches priority conditions to the available predefined sections, mentioned above. Figure 22, illustrates a flow diagram, representing the 10 processing flow the repricing engine uses in organizing the predefined sections for the repricing of a claim.

Starting with step 250, the method may begin by excluded any claim codes from the claim that are substantially equal to any codes listed in the exclusion sections of the rate sheet, step 252. These codes are temporarily excluded from the repricing of the entire claim, and are added back to the claim after the claim has been repriced, step 286. Following step 252, the method then continues to determine the nature of the service, for instance the amount of days and/or the quality of care, step 254. This provides the method with the ability to process the claim under the correct amount of days. Next in step 256, the method analyzes the claim under the Case Rate section. The method sequentially compares the claim codes and determines if the any of the claim codes substantially equal any of the codes defined in the contractual terms listed in the case rate section. If a claim codes falls under the case rate section of the rate sheet the method determines the type of service, whether the claim codes qualifies as an outpatient or inpatient, step 258. The method then determines which term(s) apply, step 260, by determining the priority of the terms. Since terms defined under the case rates section are applied to the entire claim, the method, based upon the qualifying term(s), will reprice the entire claim, step 262.

Following step 256, if the claim codes do not match the codes defined under the terms of the case rate section, then the method determines if the claim line qualifies under the Per Diem section, step 264. If a claim line (containing a claim code) is substantially equal to the codes listed under the Per Diem section, the method

5 determines whether the claim codes qualify as outpatient or inpatient, step 266. Next in step 268, the method determines which term(s) within the Per Diem sections apply and then reprices the claim line based upon the applicable term(s), step 270. If the claim line does not equal any of the codes, step 264, the method will continue to check the other

claim lines, step 272, until the entire claim has been reviewed.

10 When the entire claim has been checked, and none of the claim lines, contain codes that substantially equal the Per Diem rate sheet codes, the method continues to sequentially compare the claim lines to the terms defined under the Service section, step 274. If a claim line contains a claim code which falls under the Service sections, the method determines which type of services, inpatient or outpatient, apply, step 276, and then determines which term(s) apply, step 278. Based upon the priority notes and any priority conditions the method reprices the claim line under the applicable term(s), step 280. Next, the method determines if there are any remaining claim lines, step 282, if so the method returns to step 274, and determines if the claim line can be re-priced under the service code. If, following step 274, a claim line does not match any service code the method will error, step 284, because the claim code did not match any code on the rate sheet. Under this circumstance, the claim would probably be forwarded to a mailbox according to the routing rules, previously mentioned.

15 20 25 30 Following steps 262, 270 and 282, the method adds the excluded lines back to the re-priced claim total, step 286. The method continues thereafter to determine if the re-priced claim exceeds any stop loss, step 288, defined by the rate sheet. If so, the method re-prices the entire amount according to the stop loss, step 290. If the stop loss is not met and following the stop loss re-pricing, step 290, the method may return, step 292.

## 25 H. Claim Repricing Example

Referring now to Figure 23, the re-pricing engine using this processing flow may begin to reprice claims, for instance re-pricing the completed claim 70 illustrated in Figure 7 re-priced against the Rate Sheet 200 illustrated in Figure 20. As shown in Figure 7, the completed claim 70 includes four claim lines, 72a, 72b, 72c and 72d. Each claim line has a claim code listed in column 74a. As such claim line 72a for Room and Board includes 'claim code 120' and is priced at \$4,000 for 4 units (or four

days). Claim line 72b includes 'claim code 350', which represents coronary care, and is priced at \$6,000. Claim line 72c has 'claim code 250', which represents Pharmacy and is priced at \$10,000. Finally, claim line 72d has 'claim code 001' which represents total charges of \$20,000.

When the claim is repriced, the repricing engine, following the processing flow of Figure 22, can logically reprice the completed claim 70. Since there are no exclusions in the Rate Sheet 200 (Figure 20), the method may move to determine the amount of days, step 254. By calculating the units charged in the Room and Board claim line 72a, the method can determine that the amount of days is four. The method then moves to determine which sections in the Rate Sheet 200 apply. Reviewing the Case Rate section, step 256, the method logically determines that the codes listed in the completed claim 70 may not be categorized under either the Normal Delivery Case Rate or the C-Section Case Rate, Figure 20. As such the method continues, step 264, to determine whether any claim codes qualify under the Per Diem Section. The first claim line 72a, includes a revenue claim code of 120, which falls under the code grouping defined under the Medical term. The method then must determine the type of service provided, inpatient or outpatient, step 266. Since the completed claim 70 included a bill code of '111' in box 71, the method determine that this claim is for inpatient services. If the box 71 included the bill code '112' the method would have determined that the claim was for outpatient services.

Generally the method, determining the nature of the services, will sequentially search all contractual terms listed under the inpatient per diem section and determine which term(s) apply, step 268, also shown in a sub-processing flow diagram of Figure 23. Sequentially analyzing the terms, the method first determines whether the claim line qualifies for repricing under the first contractual term listed under the Per Diem Section, step 268a. If the claim line does qualify the method identifies the term as a matching term and determines any priority conditions associated to the matching term, step 268b. The priority conditions include for instance the priority notes and the hierarchy of the terms listed in the section. Thereafter the method determines if there are any additional contractual terms under the section, step 268c. If there is another contractual term the method return to step 268a. When there are no longer any additional

contractual terms, step 268c, the method begins to eliminate matching terms which are excluded by the priority conditions, step 268d. The claim line is then repriced under the non-eliminated matching terms, step 270a, and then the method may return to the processing flow illustrated in Figure 22.

More specifically, and in reference to repricing the completed claim 70 under the Rate Sheet 200, the method determines if the first claim line 72a qualifies under the Medical contract term, the first contractual term, step 268a. Since the claim code, listed in column 74a of the first claim line 72a, of '120' equals a qualification code within the range of the pre-defined Medical revenue codes, the method determines that the claim line qualifies under this contractual term. The method will identify the Medical term as a matching term and will determine any priority conditions. The priority conditions for the Medical term include the priority notes attached thereto. The method continues by determining if additional contractual terms are listed under the Per Diem section, step 268c. Since the Surgical term is also listed under this section, the method will determine if the claim line also qualifies under the Surgical term, return to step 268a. Even though the claim code equals a qualification code within the range of the pre-defined Surgical revenue codes, the claim does not include any CPT4 Procedure codes and therefore the claim line does not qualify under the Surgical term. Since there are no more contractual terms listed under the Per Diem section, the method continues to eliminate any matching terms which are excluded by priority conditions, step 268d. The priority conditions attached to the Medical term include the priority notes: "This calculation will be used to reprice the current line" and "when the claim qualifies for more than one term, this price will be used if it is the last term to qualify." Since the claim only qualified under one term, the method will have no terms to eliminate and will reprice the claim under the Medical term, step 270a. Under the Rate Sheet 200, the claim line would be repriced at \$750.00 a day, multiplied by the four units or days for a total of \$3,000. Returning to step 288, Figure 22, the method would add any excluded claims, which in this example there was none, and determine if the stop loss section applied, step 288. The stop loss term as illustrated will only apply if the total amount of the repriced claim exceeds \$20,000, which it does not, therefore the method may return, step 292.

Under this processing flow, of Figures 22 and 23, the other claim lines would be bundled together under the Medical Per Diem section, such that the prior total of \$20,000 would be subjected to repricing to the new amount of \$3,000. As seen in Figure 24, the nature of the repricing can be graphically displayed in Repricing window 300, which describes that the claim code (revenue code) of 120 represents a Medical Per Diem charge with four units (days), as such the original charge of \$20,000 was discounted \$17,000 to a repricing of \$3,000.

Even if the claim was unbundled into four separate claims, one claim for each claim line, the repricing engine will identify the four separate claims as originating from the same provided service. By searching the patient, days of care provided, the nature of the care, and the services preformed the repricing engine will identify the four unbundled claims as a single claim, and reprice the group of claims as a single claim. In the alternative, under various reasons, a claim once entered may need to be unbundled into separate claims, as such the repricing engine, can unbundle the claim into separate claims, separate the claim codes accordingly and reprice the unbundled claims.

A second completed claim 310, illustrated in Figures 25a and 25b, is similar to completed claim 70 except it includes a Principal Procedure code '72' in code box 312, which designates a Normal Delivery. When repricing the second completed claim 310, the method, illustrated in Figure 22, determining that the Case Rate section applies, step 256, would determine the type of service 260. Next in step 262, the repricing engine would reprice the entire claim under the Normal Delivery Calculations defined in the Rate Sheet 200, and reprice the claim to \$2,300.00, illustrated in Figure 26 in Repricing window 320.

The contracts platform permits virtually all contracts to be interactive, meaning that the information is shared and used between the contracts and between the other platforms and engines. This allows the platforms to be changed, customized or new platforms may be added without damaging the integrity of the shared or stored information. As such as the industry or Insurer defines or re-defines the calculation categories or sections, the platforms may be changed or altered accordingly without damaging or effecting the information.

## I. Additional Embodiments of the Present Invention

As mentioned above, the platforms may be designed to accept claims over various communication mediums. If utilized by third party administrators or by employers the ability to maintain a database to accept and reprice claims may be difficult, time consuming and expensive. As such the need exists to provide a single data center maintaining and managing numerous networks. Referring to Figure 27, a single data center 330, is shown with a plurality of networks stored thereon, network A 332 corresponding to Insurer A; network B 332b corresponding to employer B; network C network 332c corresponding to PPO C;...; network N 332n corresponding to Insurer n. Each network contains a plurality of rate sheets privy to the owner of the network, such as a PPO, Insurer, employer, or third party administrator. Various providers would submit reimbursement claims to the data center 330 over various wireline 334 and wireless 335 communication mediums. The data center would determine which network the claim is associated to and then reprice the claim and graphically display, transmit or electronically send to the submitter a reimbursement worksheet, such as the graphically displayed reimbursement window 300, Figure 24.

The data center is also accessible by the network's administrators, through various wireline 338 or wireless 339 communication mediums. The network's administrators would access their networks, and receive the submitted reimbursement claims along with corresponding reimbursement worksheet, so that payments to the submitter may be made. Other outside networks 342, such as Network XX, may be maintained and managed outside of the data center by the outside network's administrators. However, through various links the data center may be provided with access to the outside network 342. This would permit a provider 334 to submit a claim, to be reimbursed against the outside network 342. The data center receiving the claim would access the outside network 342 and reprice the claim against the rate sheets contained thereon. In this instance any proprietary information in relation to the rate sheets is maintained by the administrator of Network XX.

Moreover, the data center may be accessible to patients 340, through various mediums. Patients with submitted claims may be able to track the repayment or the repricing of claims submitted on their behalf. The data center may further be capable

of maintaining cost histories of providers and PPOs. Insurers attempting to maintain, negotiate and create new networks of PPOs may be able to access these histories to determine possible risk allocation levels and to locate specific PPOs that meet their qualifications.

5                   From the foregoing and as mentioned above, it will be observed that numerous variations and modifications may be effected without departing from the spirit and scope of the novel concept of the invention. It is to be understood that no limitation with respect to the specific methods and apparatus illustrated herein is intended or should be inferred. It is, of course, intended to cover by the appended claims all such 10 modifications as fall within the scope of the claims.

We claim:

1. A method of repricing a reimbursement claim under at least one contract comprising:

5 converting each contract into a plurality of terms and a contract identifier code, each term, of the plurality of terms, containing qualification codes, calculation codes and at least two priority notes, and arranging the plurality of terms, of said contract, into a sequential series of terms;

10 converting the reimbursement claim into a series of claim lines, each claim line containing a claim code, a unit number and a corresponding charge;

15 sequentially comparing each claim code, of the series of claim lines, against each qualification code, of the plurality of terms and when a claim code, of a claim line, is substantially equal to a qualification code, of a term, identifying said term as a matching term associated to said claim line,

20 determining any priority conditions associated to all of the matching terms, and eliminating any matching terms that are excluded by said priority conditions; and

25 determining a reimbursement amount for the claim by processing the calculation codes of the non-eliminated matching terms.

2. The method of claim 1 wherein the priority conditions include:

30 categorizing the terms, of the sequential series of terms, into pre-defined sections, wherein the pre-defined sections have a hierarchy that lists a pre-defined section having priority over another pre-defined section prior to said other pre-defined section.

25 3. The method of claim 2 wherein the priority conditions further include:

35 arranging the terms, within each pre-defined section, by a reverse hierarchy, which sequential lists a term, having priority over another term, subsequent to said other term.

4. The method of claim 3 wherein the step of sequentially comparing further includes:

5 when a claim code, of a claim line, is substantially equal to a qualification code of a term, identifying the pre-defined section in which the term is categorized under as a governing pre-defined section for said claim line;

sequentially comparing the claim code of said claim line, only against the qualification codes, of each term categorized under said governing pre-defined section; and

10 when the claim code of said claim line is substantially equal to a qualification code, of a term categorized under said governing pre-defined section, identifying said term as a matching term associated to said claim line.

15 5. The method of claim 4 wherein the step of determining the reimbursement amount includes:

determining a reimbursement charge for each claim line associated to a non-eliminated matching term; and

20 adding the reimbursement charges for said claim lines, whereby the reimbursement amount for the claim is the addition of the reimbursement charges.

25 6. The method of claim 5 wherein when a priority note, of a non-eliminated matching term, indicates that the calculation codes, of said non-eliminated matching term, apply to the entire claim, making the reimbursement amount for the claim equal to the reimbursement charge for the claim line associated to said non-eliminated matching term.

30 7. The method of claim 6 wherein when a term, indicates that the calculation codes, of said term, apply to the reimburse amount of the claim, the method further including:

determining the reimbursement amount of said claim; and

when the qualifications of said term are satisfied, re-calculating the reimbursement amount based upon the calculation codes of said term.

8. The method of claim 7 wherein the step of converting the claim further includes the step of associating the claim to a claim identifier code.

5 9. The method of claim 8 further including:

comparing the claim identifier code, against the contract identifier code, of each contract, and when the claim identifier code is substantially equal to a contract identifier code, of a contract, identifying said contract as a governing contract, wherein the repricing of said claim is repriced only against said governing contract.

10 10. The method of claim 9 wherein the step of repricing the claim against said governing contract further includes:

15 when at least two contracts are identified as governing contracts, repricing said claim against each governing contract creating a list of governing reimbursement amounts.

20 11. The method of claim 10 further comprising:

25 determining a lowest governing reimbursement amount, of the list of governing reimbursement amounts, wherein the lowest governing reimbursement amount is the reimbursement amount of said claim.

30 12. A method of repricing at least one reimbursement claim, for medical services, under at least one contract comprising:

inputting into a platform, each contract, of the at least one contract, each contract containing a contract identifier code and a series of contractual terms, each contractual term being defined by qualification codes, calculation codes and at least one priority note;

inputting into a platform, each claim, of the at least one claim, each claim containing a second identifier code and a series of claim lines, wherein each claim line being defined by a claim code, a unit number and a corresponding charge;

requesting a platform to reprice a claim, of the at least one claim, by determining a reimbursement amount for said claim; and

requesting a platform to display the reimbursement amount for said repriced claim.

5

13. The method of claim 12 wherein the step of determining a reimbursement amount includes:

comparing each claim code, of the claim, against each qualification code, of each contractual term, of a contract;

10 when a qualification code, of a contractual term, is satisfied by a claim code, of a claim line, identifying said contractual term as a matching contractual term associated to said claim line, and creating a list of all matching contractual terms;

15 determining any priority conditions associated to the matching contractual terms, and eliminating any matching contractual terms, from said list of matching terms that are excluded by said priority conditions; and

20 determining a reimbursement charge for each claim line associated to a non-eliminated matching term, and adding the reimbursement charges for said claim lines, wherein the reimbursement amount for the claim is the addition of said reimbursement charges.

25 14. The method of claim 13 wherein the priority conditions further includes:

25 categorizing the contractual terms, of each contract, into a set of sequentially listed pre-defined sections, wherein the pre-defined sections have a hierarchy that lists a pre-defined section, having priority over another pre-defined section, before said other pre-defined section.

30 15. The method of claim 14 wherein the priority conditions further includes:

30 arranging the contractual terms, categorized in each pre-defined section, in a reverse hierarchy, wherein a contractual term having priority over another contractual term is listed subsequent said other contractual term.

16. The method of claim 14 wherein the step of comparing each claim code against each qualification code includes:

5 when the claim further contains a claim priority condition, comparing each claim code only against qualification codes, of contractual terms listed in pre-defined sections that satisfy the claim priority condition.

10 17. The method of claim 16 wherein the priority conditions include a claim priority condition which eliminates any matching contractual terms that is listed in a pre-defined section that is excluded by the claim priority condition.

15 18. The method of claim 17 wherein when one of the priority notes associated to a matching contractual term indicates that said matching contractual term reprises the entire claim, eliminating all other matching contractual terms.

20 19. The method of claim 18 wherein the reverse hierarchy is determined by the priority notes associated to each contractual term, categorized in a pre-defined section.

25 20. The method of claim 13 wherein the step of repricing further includes:  
comparing the claim identifier code against the contract identifier code, of each contract, wherein when the claim identifier code is substantially equal to a contract identifier code, of a contract, identifying said contract as a governing contract; and  
determining a reimbursement amount of the claim only against the governing contract.

30 21. The method of claim 20 wherein the step determining a reimbursement amount for the claim against the governing contract includes:

when at least two contracts are identified as governing contracts, repricing said claim against each governing contract creating a list of governing reimbursement amounts, wherein the reimbursement amount of said claim is the lowest governing reimbursement amount.

22. The method of claim 21 further including:  
storing the reimbursement amount of a claim and storing said claim as a  
repriced claim.

5

23. The method of claim 22 wherein prior to determining the reimbursement amount for a claim the method including:

comparing the claim identifier code, of said claim, against the claim identifier codes, of all stored repriced claims;

when the claim identifier code, of said claim is substantially equal to the claim identifier codes, of a stored repriced claim, creating a bundled claim having the combined claim lines of the claim lines of said claim with the claim lines of said repriced claim;

determining the reimbursement amount of the bundled claim, instead of determining the reimbursement amount of said claim; and

rewriting the reimbursement amount of the stored repriced claim with the reimbursement amount of the bundled claim and rewriting the stored claim with the bundled claim.

24. An article of manufacture comprising:

a computer usable medium having computer readable program code embodied therein for repricing a reimbursement claim against at least one contract, said claim containing a claim identifier, a plurality of claim lines and a total charge, said contract containing a contract identifier and a plurality of contractual terms, the computer readable program code means in the article of manufacture comprising:

computer readable program code means for causing a computer to generate a rate sheet which represents a contract, of the at least one contract, the rate sheet containing one or more rate terms that represent the contractual terms of said contract, and containing a rate identifier code that represents the contract identifier of said contract;

computer readable program code means for causing a computer to generate the claim, the claim having a claim identifier codes and a series of claim lines, each claim line including a claim code, a unit number and a code charge;

5 computer readable program code means for causing a computer to reprice the claim against a rate sheet, and to generate and assign a reimbursement amount to said repriced claim; and

10 computer readable program code means for causing a computer to graphically display the reimbursement amount of the repriced claim, and a difference between the total charge of the claim and the reimbursement amount of the repriced claim.

25. The article of manufacture of claim 24, wherein the computer readable program code means for causing a computer to generate a rate sheet further includes:

15 computer readable program code means for causing a computer to assign qualification codes, calculation codes and at least one priority note to each rate term, and to arrange said rate terms into a sequential series of terms.

20. The article of manufacture of claim 25, wherein the computer readable program code means for causing a computer to generate a rate sheet further includes:

computer readable program code means for causing a computer to graphically convey the rate sheet by displaying the sequential series of terms in an English language representation.

25. The article of manufacture of claim 26, wherein the computer readable program code means for causing a computer to generate a rate sheet further includes:

computer readable program code means to generate and display each rate term as a English language paragraph with a series of data entry panels interspersed in the paragraph, the data entry panels

prompting a user to define the calculation codes, qualification codes and priority codes for each rate term.

28. The article of manufacture of claim 27, wherein the computer readable program code means for repricing the claim against a rate sheet further includes:

5 computer readable program code means causing a computer to sequentially compare each claim code, included in the series of claim lines, against each qualification code, of each rate term; and when a claim code, of a claim line, is substantially equal to a qualification code, of a rate term, the computer readable program code means causing a computer to identify said rate term as a matching rate term associated to said claim line;

10 computer readable program code means causing a computer to determine any priority conditions associated to the matching rate terms and to eliminate any matching rate terms that are excluded by said priority conditions defining a series of remaining matching rate terms; and

15 computer readable program code means causing a computer to compute the reimbursement amount from the calculation codes of the remaining matching rate terms.

20 29. The article of manufacture of claim 28, wherein the computer readable program code means for causing a computer to generate a rate sheet further includes:

25 computer readable program code means to categorize the rate terms, of the rate sheet, in pre-defined sections, the pre-defined sections have a hierarchy sequence that assigns priority conditions to the rate terms categorized therein.

30 30. The article of manufacture of claim 29, wherein the article of manufacture further includes:

computer readable program code means causing a computer to assign priority conditions to the priority codes of the rate terms categorized within one of the pre-defined sections, said priority conditions defining a priority sequence of said rate terms.

5

31. The article of manufacture of claim 30, wherein the computer readable program code means for causing a computer to sequentially compare each claim code further includes:

10 when a claim code, of a claim line, is substantially equal to a qualification code, of a rate term, the computer readable program code means causing a computer to identify the pre-defined section in which the rate term is categorized under as a governing pre-defined section for said claim line;

15 computer readable program code means causing a computer to sequentially compare the claim code of said claim line, against only the qualification codes, of each rate term categorized under said governing pre-defined section; and

20 when the claim code of said claim line is substantially equal to a qualification code, of a term categorized under said governing pre-defined section, the computer readable program code means causing a computer to identify said term as a matching term associated to said claim line.

25 32. The article of manufacture of claim 31, wherein the article of manufacture further includes:

computer readable program code means causing a computer to compare the claim identifier against the rate identifier code and to identify a rate sheet as a governing rate sheet which has a rate identifier code substantially equal to the claim identifier; and

computer readable program code means causing a computer to reprice the claim only against a governing rate sheet.

30 33. The article of manufacture of claim 32, wherein the article of manufacture further includes:

when at least two rate sheets are identified as governing rate sheets, computer readable program code means causing a computer to reprice the claim against each governing rate sheet and to create a list of governing reimbursement amounts.

5

34. The article of manufacture of claim 33, wherein the article of manufacture further includes:

computer readable program code means causing a computer to receive an input from an user to direct the computer to assign either the highest or lowest governing reimbursement amount, from the list of governing reimbursement amounts, as the reimbursement amount of the repriced claim.

10 35. The article of manufacture of claim 34, wherein the article of manufacture further includes:

15 computer readable program code means for causing a computer to store in a repriced claim storage location a repriced claim along with the reimbursement amount of said repriced claim, said repriced claim includes the claim identifier code and claim lines associated to said repriced claim.

20 36. The article of manufacture of claim 35, wherein the article of manufacture further includes:

25 computer readable program code means for causing a computer to compare the claim identifier code, of a claim, against the claim identifier code, of each repriced claim, stored in the repriced claim storage location;

30 when the claim identifier code, of said claim, is substantially equal to the claim identifier code, of a repriced claim, the computer readable program code means causing a computer to combine the claim

lines of said claim with the claim lines of said repriced claim to create a bundled claim; and  
computer readable program code means for causing a computer to reprice the bundled claim and rewrite said repriced claim with the repriced bundled claim.

37. The article of manufacture of claim 36, wherein the article of manufacture further includes:

10 computer readable program code means causing a computer to store in a rate sheet storage location the calculation codes, qualification codes and priority codes of a rate sheet.

15 38. The article of manufacture of claim 37, wherein the article of manufacture further includes:

computer readable program code means causing a computer to store in a claim storage location the claim lines of a claim.

20 39. The article of manufacture of claim 38, wherein the article of manufacture further includes:

25 computer readable program code means causing a computer to store in an identifier storage location a plurality of identifier codes substantially equal to the rate identifier codes, of each rate sheet, and the claim identifier codes, of each claim; and

computer readable program code means causing a computer to logically link each claim having a claim identifier code and each rate sheet having a rate identifier code that are substantially equal to a single identifier code, of the plurality of identifier codes; and

30 computer readable program code means causing a computer to receive inputs from a user, said inputs to cause the computer to access the identifier storage location and to change an identifier code, of the plurality of identifier codes, whereby each claim and each rate

sheet logically linked to said identifier code is automatically changed.

40. A method for repricing a reimbursement claim against at least one  
5 contract, (1) each claim containing at least one claim line, each claim line being defined  
by claim codes, a unit number and a corresponding charge, and (2) each contract  
containing at least one contractual term, each contractual term being defined by  
qualification codes, calculation codes, the method for repricing comprising:

10 comparing each claim code, of the claim, against each qualification code,  
of each contractual term, of a contract;

15 when a qualification code, of a contractual term, is satisfied by a claim  
code, of a claim line, identifying said contractual term as a matching contractual term  
associated to said claim line, and creating a list of all matching contractual terms;

20 15 determining any priority conditions associated to the matching contractual  
terms, and eliminating any matching contractual terms, from said list of matching terms  
that are excluded by said priority conditions; and

25 20 determining a reimbursement charge for each claim line associated to a  
non-eliminated matching term, and adding the reimbursement charges for said claim  
lines, wherein the reimbursement amount for the claim is the addition of said  
reimbursement charges.

30 25 20 15 10 5 41. The method of claim 40 further comprising:

35 30 25 20 15 10 5 storing each contract on a network contract storage location, the network  
storage location containing a plurality of contract sets, each contract set associated to a  
set identifier, each contract further including a contract identifier and a set identifier,  
wherein each contract containing a set identifier substantially equal to a set identifier of a  
contract set, is stored within said contract set;

30 35 30 25 20 15 10 5 identifying each claim with a set identifier and a claim identifier;

35 30 25 20 15 10 5 comparing the set identifier of a claim against the set identifier, of each  
contract set, when the set identifier of a claim is substantially equal to the set identifier of  
a contract set, identifying said contract set as a governing contract set;

comparing the claim identifier of said claim against the contract identifiers of each contract, stored within said governing contract set, and when the claim identifier of said claim is substantially equal to the contract identifier of a contract, stored within said governing contract set, identifying said contract as a governing contract; and

5 determining the reimbursement amount of said claim only against said governing contract.

10 42. The method of claim 41 wherein the priority conditions further includes:  
categorizing the contractual terms, of each contract, into a set of sequentially listed pre-defined sections, wherein the pre-defined sections have a hierarchy that lists a pre-defined section, having priority over other pre-defined sections, before said other pre-defined sections.

15 43. The method of claim 42 wherein the priority conditions further includes:  
arranging the contractual terms, categorized in each pre-defined section, in a reverse hierarchy, wherein a contractual term having priority over other contractual terms is listed subsequent said other contractual terms.

20 44. The article of manufacture of claim 43, wherein the computer readable program code means for causing a computer to sequentially compare each claim code further includes:

25 when a claim code, of a claim line, is substantially equal to a qualification code, of a contractual term, the computer readable program code means causing a computer to identify the pre-defined section in which the contractual term is categorized under as a governing pre-defined section for said claim line;

computer readable program code means causing a computer to sequentially compare the claim code of said claim line, against only the qualification codes, of each contractual term categorized under said governing pre-defined section; and

30 when the claim code of said claim line is substantially equal to a qualification code, of a term categorized under said governing pre-defined section, the

computer readable program code means causing a computer to identify said contractual term as a matching contractual term associated to said claim line.

5           45.       The method of claim 44 wherein the priority conditions include a claim priority condition which eliminates any matching contractual terms that is listed in a pre-defined section that is excluded by the claim priority condition.

10           46.       The method of claim 45 wherein when one of the priority notes associated to a matching contractual term indicates that said matching contractual term reprises the entire claim, eliminating all other matching contractual terms.

15           47.       The method of claim 46 wherein the reverse hierarchy is determined by the priority notes associated to each contractual term, categorized in a pre-defined section.

20           48.       The method of claim 47 wherein the step of repricing further includes:  
                  comparing the claim identifier code against the contract identifier code, of each contract, wherein when the claim identifier code is substantially equal to a contract identifier code, of a contract, identifying said contract as a governing contract; and  
                  determining a reimbursement amount of the claim only against the governing contract.

25           49.       The method of claim 48 wherein the step determining a reimbursement amount for the claim against the governing contract includes:

                  when at least two contracts are identified as governing contracts, repricing said claim against each governing contract creating a list of governing reimbursement amounts, wherein the reimbursement amount of said claim is the lowest governing reimbursement amount.

30           50.       The method of claim 49 further including:

storing the reimbursement amount of a claim and storing said claim as a repriced claim.

5. 51. The method of claim 50 wherein prior to determining the reimbursement amount for a claim the method including:

comparing the claim identifier code, of said claim, against the claim identifier codes, of all stored repriced claims;

10 when the claim identifier code, of said claim is substantially equal to the claim identifier codes, of a stored repriced claim, combining the claim lines of said claim with the claim line of said repriced claim creating a bundled claim;

determining the reimbursement amount of the bundled claim, instead of determining the reimbursement amount of said claim; and

15 rewriting the reimbursement amount of the stored repriced claim with the reimbursement amount of the bundled claim and rewriting the stored claim with the bundled claim.

52. The method of claim 40 further comprising:

20 tracking the priority conditions associated to the non-eliminated matching terms; and

25 displaying said priority conditions along with the reimbursement charge of the claim lines associated with said non-eliminated matching terms.

53. An article of manufacture comprising:

25 a computer usable medium having computer readable program code embodied therein for configuring a contract, containing contractual terms, for repricing a reimbursement claim, the computer readable program code means in the article of manufacture comprising:

30 computer readable program code means for causing a computer to generate a rate sheet representing the contractual terms of said contract, the rate sheet containing identifier codes, and one or more rate terms;

computer readable program code means for causing a computer to arrange  
the rate terms in a sequential series of terms; and  
computer readable program code means for graphically conveying the rate  
sheet by displaying the sequential series of terms in an English  
language representation.

5. 54. The article of manufacture of claim 53, wherein the article of manufacture  
further includes:

10 computer readable program code means to generate and display each rate  
term as a English language paragraph with a series of data entry  
panels interspersed in the paragraph, the data entry panels  
prompting a user to define calculation codes, qualification codes  
and priority codes for each rate term.

15 55. The article of manufacture of claim 54, wherein the article of manufacture  
further includes:

20 computer readable program code means to categorize the rate terms, of the  
rate sheet, in pre-defined sections, wherein the pre-defined sections  
have a pre-defined hierarchy sequence that assigns a priority to the  
rate terms categorized therein when repricing a claim.

25 56. The article of manufacture of claim 55, wherein the English language  
paragraph describes the qualification and calculation of the rate term when repricing a  
medical reimbursement claim.

30 57. The article of manufacture of claim 56, wherein the priority codes define a  
priority sequence to the rate terms within a pre-defined section, of said pre-defined  
sections.

58. The article of manufacture of claim 57, wherein the article of manufacture further includes:

computer readable program code means to permit a user to edit the calculation codes, qualification codes and priority codes of a rate term of the rate sheet.

5 59. The article of manufacture of claim 58, wherein the article of manufacture further includes:

10 computer readable program code means to store a rate sheet, in a data center containing a plurality of networks, each network containing a plurality of rate sheets, similarly configured; and when the identifier codes of a rate sheet identifier a specific network, of the plurality of networks, the computer readable program code means stores said rate sheet in the specific network.

15

## **Abstract**

A method for repricing a reimbursement claim under at least one contract is provided herein. The method includes converting each contract into a series of contractual terms, where each contractual terms contains qualification codes, calculation codes and priority notes. The method then converts a claim into a series of claim lines, containing claim codes, unit numbers and corresponding charges for the claim codes. The method then begins to compare comparing each claim code, of the claim, against each qualification code, of each contractual term, of a contract and when a qualification code, of a contractual term, is satisfied by a claim code, of a claim line, the method identifies the contractual term as a matching contractual term associated to the claim line. Upon identifying all matching contractual terms, either to the claim line or the entire claim, the method will determine any priority conditions associated to the matching contractual terms, and eliminate any matching contractual terms that are excluded by the priority conditions. The method then calculates the reimbursement amount for the claim by determining the reimbursement charges for the non-excluded matching contractual terms. The method may then determine and make any adjustments depending upon any discount terms for the entire reimbursement amount.

aks/0616005, P23

Figure 1

10

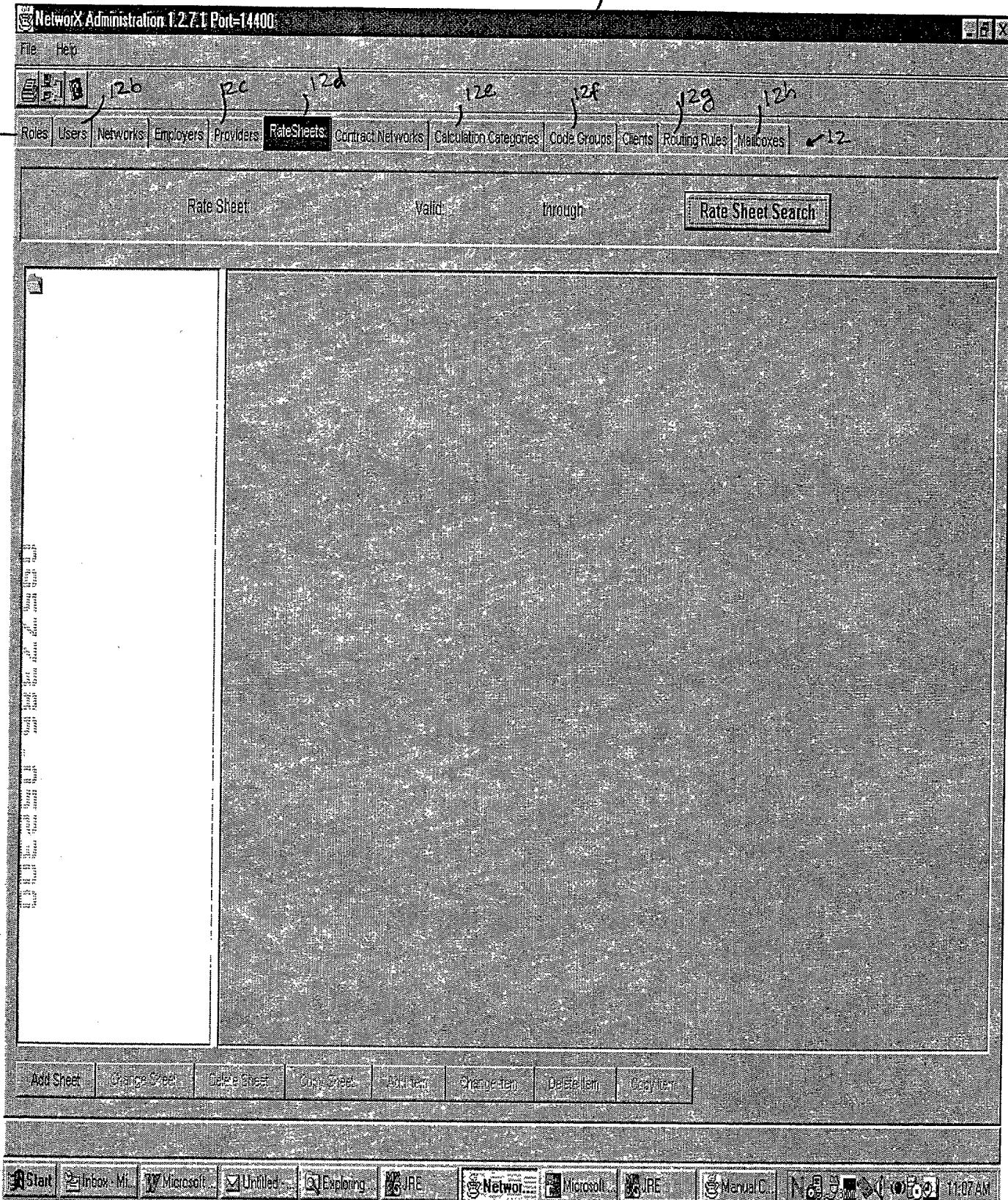


Figure 2

10

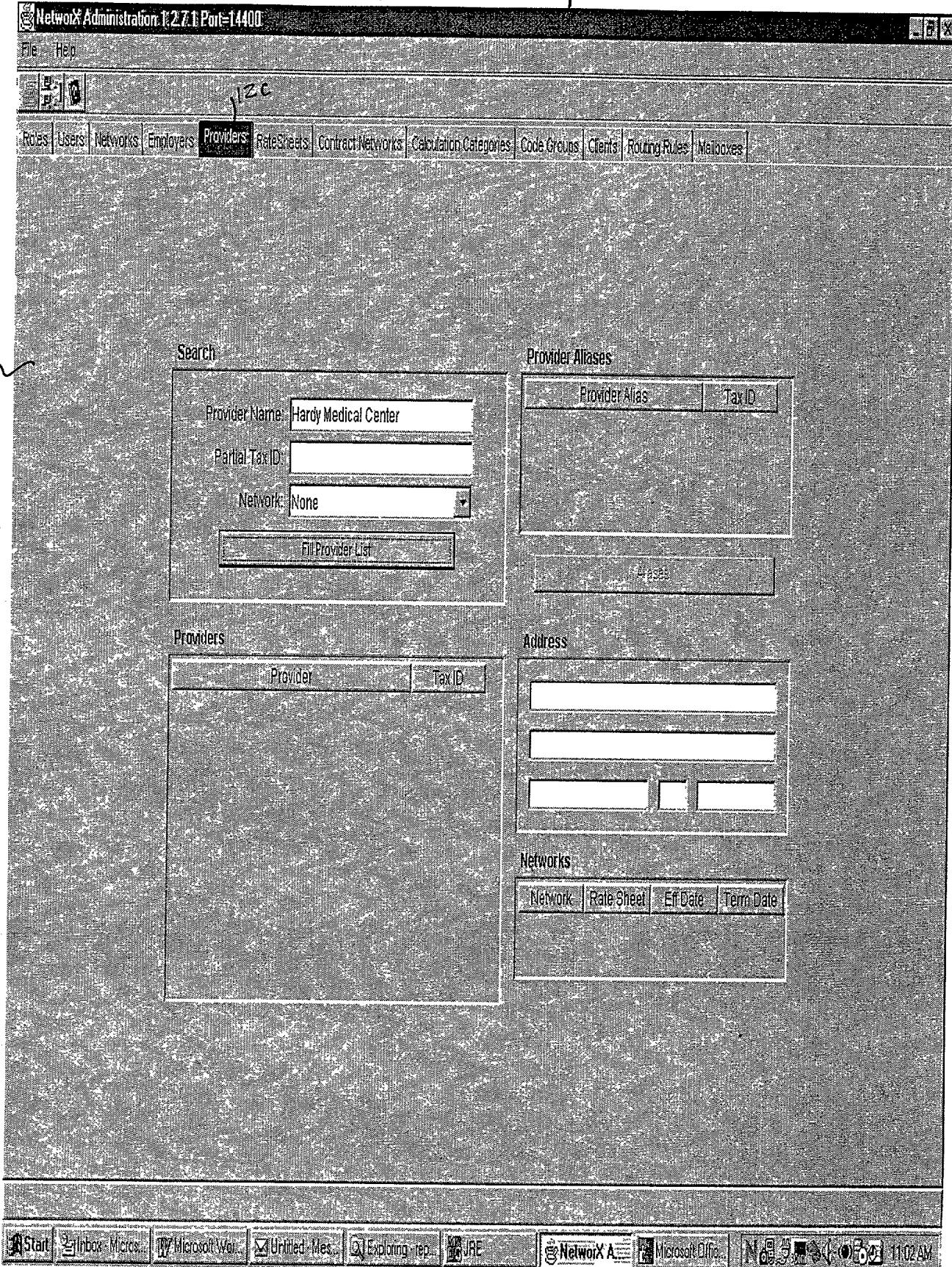


Figure 3

10

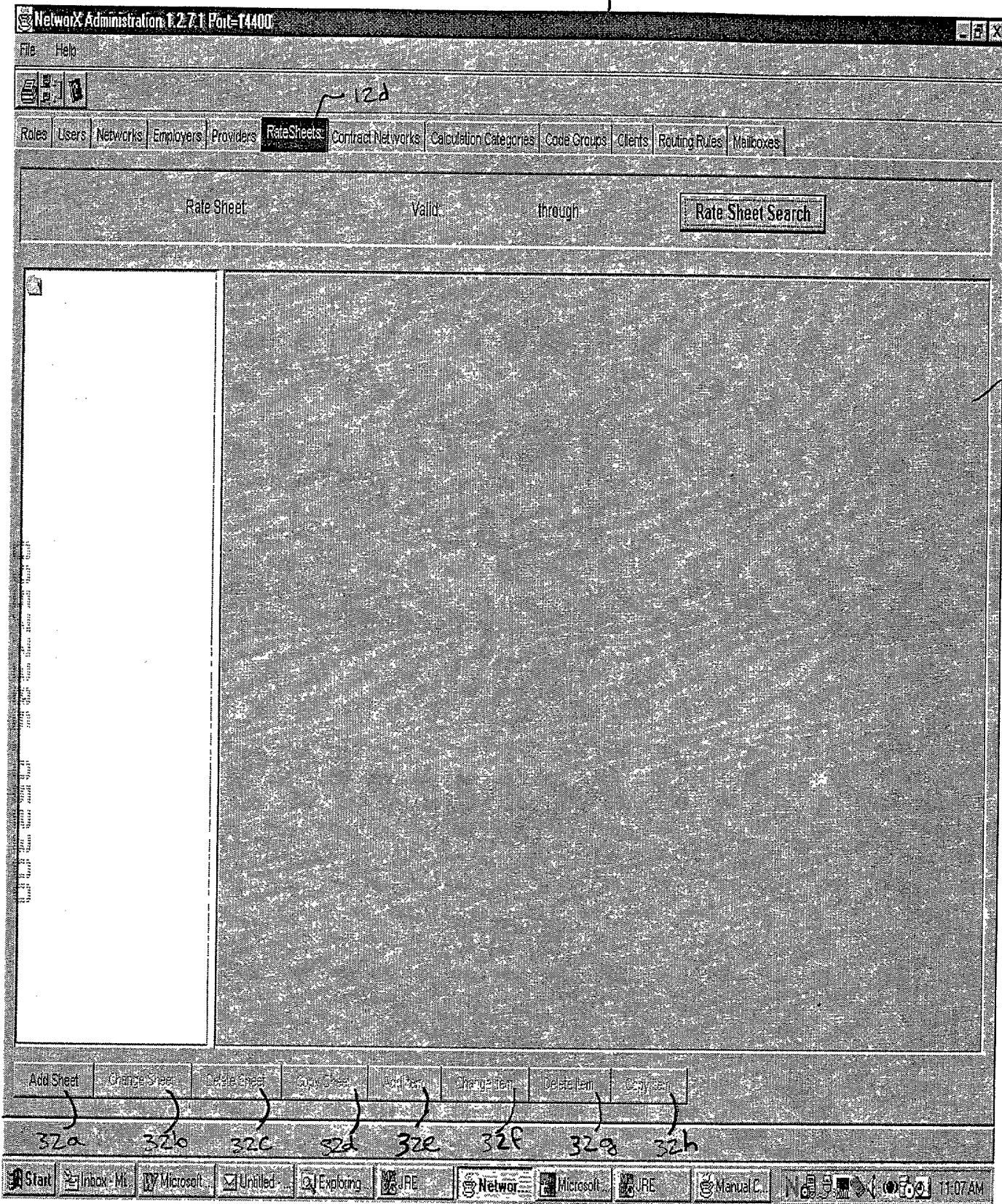


Figure 4

12c

40 ~45

Network Administration 127.1 Port=14400

File Help

Roles Users Networks Employers Providers RateSheets Contract Networks Calculation Categories Code Groups Clients Routing Rules Mailboxes

**Categories**

Category Description
All Calculations
Ambulatory Surgery
boarder baby calcs
Case Rates
Cost Calculations
Discount Calculations
DRGs
Maximum Amounts
Non Covered Services
Per Diems
Percentages
Reasonable & Customary
Schedules
Stop Loss
Unit Calculations

**Calculations**

Calculation Description
2 Level Per Diem
2 Level Per Diem, Ltd by Pct of Chg
3 Lv Per Diem
4 Level Per Diem
Per Diem
Per Diem, Excess Days

Add Change Delete

Start Inbox - Microsoft Mail Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft Office 11:03 AM

Figure 5

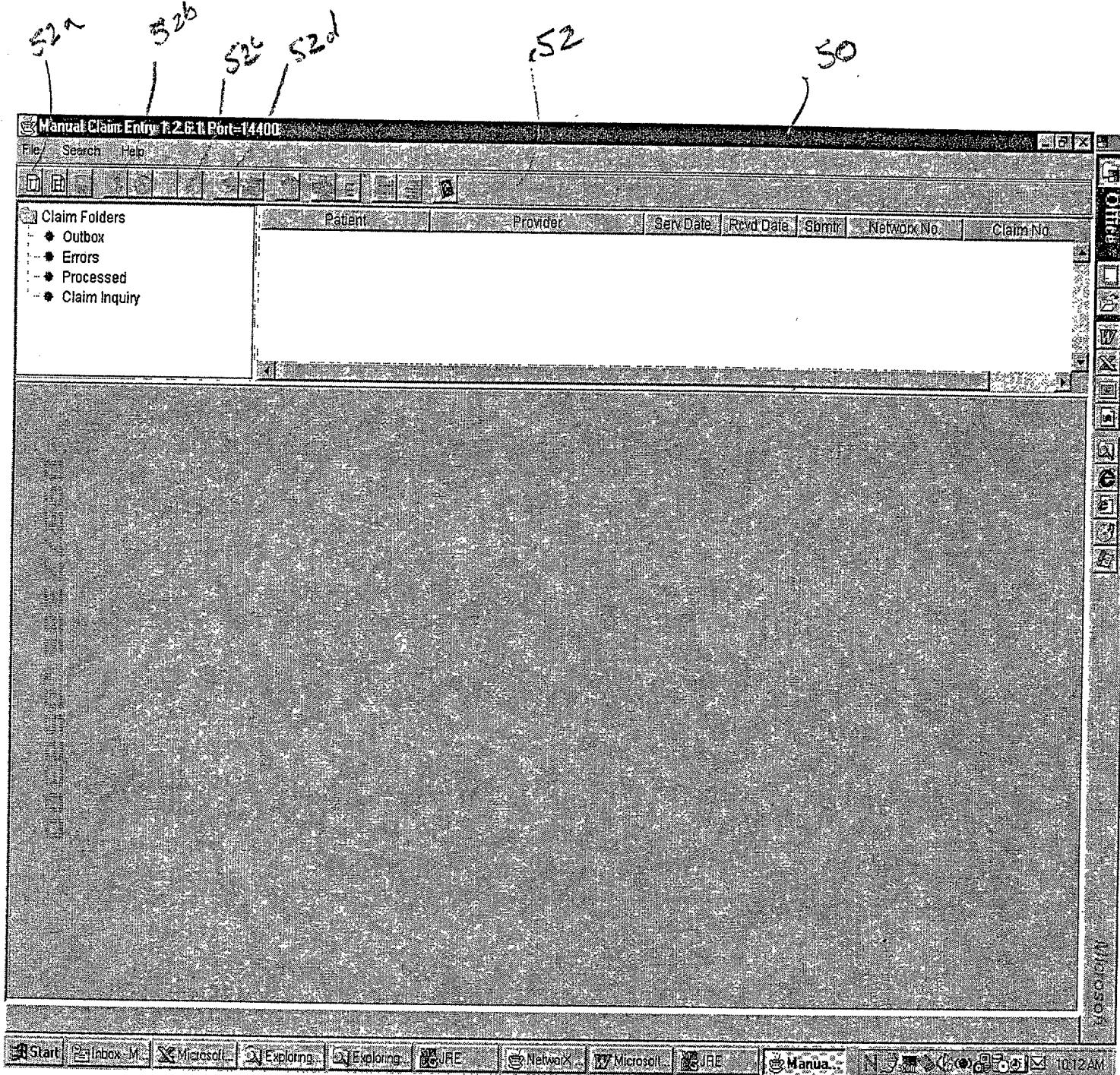


Figure 6a

Manual Claim Entry 1.2.7.1 Port=14400

File Search Help

Claim Folders Patient Provider Serv Date Recd Date Submit Network No. Claim No. S...

Outbox Errors Processed Claim Inquiry

Claim No. [ ]

1. MEDICARE MEDICAID CHAMPUS CHAMPVA GROUP FECA OTHER 1a. INSURED'S I.D. NUMBER

2. PATIENT'S NAME (Last, First, MI) 3. PATIENT'S BIRTHDATE 4. PATIENT'S ADDRESS

5. PATIENT'S ADDRESS 6. PATIENT RELATIONSHIP TO INSURED 7. INSURED'S ADDRESS

ZIP CODE TELEPHONE Single  Married  Other  ZIP CODE TELEPHONE

Employed  F/T Student  P/T Student

9. OTHER INSURED'S NAME (Last, First, MI) 10. IS PATIENT'S CONDITION RELATED TO 11. INSURANCE POLICY OR GROUP NUMBER

a. OTHER INSURED'S POLICY OR GROUP NUMBER b. EMPLOYMENT? (CURRENT OR PREVIOUS) c. BIRTHDATE d. SEX

b. BIRTHDATE e. SEX f. AUTO ACCIDENT? g. PLACE (State) h. EMPLOYER'S NAME OR SCHOOL NAME

c. EMPLOYER'S NAME OR SCHOOL NAME i. OTHER ACCIDENT? j. INSURANCE PLAN NAME OR PROGRAM NAME

d. INSURANCE PLAN NAME OR PROGRAM NAME k. RESERVED FOR LOCAL USE l. IS THERE ANOTHER HEALTH BENEFIT PLAN?

Start Inbox - M Microsoft Untitled Exploring Network Microsoft JRE Manual Help 11:04 AM

Figure 6b

Manual Claim Entry 1.27.1 Port=14400

File Search Help

Claim Folders      Patient      Provider      Srv Date Rcvd Date Sbmtr Network No. Claim No. St:

Outbox Errors Processed Claim Inquiry

12. PATIENT OR AUTHORIZED PERSONS SIGNATURE      PATIENT SIGNATURE DATE / /      13. INSURED OR AUTHORIZED PERSONS SIGNATURE       YES       NO

14. DATE OF CURRENT ILLNESS (First Symptom) OR INJURY (Accident) OR PREGNANCY (MP)      15. IF PATIENT HAS HAD SAME OR SIMILAR ILLNESS, GIVE FIRST DATE / /      16. DATES PATIENT UNABLE TO WORK      FROM / /      TO / /

17. NAME OF REFERRING PHYSICIAN OR SOURCE      17a. I.D. NUMBER OF REFERRING PHYSICIAN      18. HOSPITALIZATION DATES RELATED TO SERVICES      FROM / /      TO / /

19. RESERVED FOR LOCAL USE      20. OUTSIDE LAB?      21. CHARGES       YES       NO

22. MEDICAID RESUBMISSION CODE      23. PRIOR AUTHORIZATION NUMBER

24. A      B      C      D      E      F      G      H      I      J      K

DATES FOR PERIOD      TOS      HRS      MODIFIER      CHARGE      UNITS      EPSDT      ENG      COB      Reserved for Anesthesia Local Use      Hours      Mins      Cost

25. FEDERAL ID NUMBER SSN EIN      26. PATIENT'S ACCOUNT NO.      27. ACCEPT ASSIGNMENT?      28. CHARGES      29. AMOUNT PAID      30. BALANCE DUE

31. SIGNATURE OF PHYSICIAN OR SUPPLIER      32. NAME AND ADDRESS OF INSURANCE COMPANY

33. PHYSICIAN'S SUPPLIER'S BILLING NAME, ADDRESS, ZIP CODE AND PHONE NUMBER

Start      Inbox - M... Microsoft      United      Exploring      JRE      Network      Microsoft      JRE      Manual      Help      11:05 AM



File Search Help

Outbox Errors Processed All Completed Claims Cost Excess Days Manual

Patient	Provider	Sen Date	Rev Date	Subm	Network No.	Claim No.
sibymultwxspct2, ev	St. Michael Health Care Center	2000-01-09	2000-02-29			
sibymaxlos3, ev	St. Michael Health Care Center	2000-01-09	2000-02-29			
sibymultwxspct3, ev	St. Michael Health Care Center	2000-01-09	2000-02-29			
Variableperdiem, ev	Hardy Medical Center	2000-01-09	2000-02-29	dmalt		

Received 02/29/2000

Claim No. 111

Medical Center

1305 276b2 3 Patient Control Number 4 Date of Bill

Crowley LA 70528 5 Statement Covers Period From Through 6 Cov D 8 H/C D 9 C/P D 10 L/R D 11

Patient Name 76f First 76b 76m 13 Patient Address Street City State Zipcode

14 Admit Date 15 Sex 16 MS 17 Disch 18 HR 19 Type 20 SRC 21 D 22 Stat 23 Medical Record No 24 25 26 27 28 29 30 31

08/15/1957 01/09/2000

32 Occurrence Code 33 Occurrence Date 34 Occurrence Date 35 Occurrence Date 36 Occurrence Date 37 Occurrence Span From Through 38 Last First 39 Value Codes Code Amount 40 Value Codes Code Amount 41 Value Codes Code Amount

120 ROOM-BOARD/SIM 4 \$4,000.00 ← 72a

350 CORONARY CARE-ORC 1 \$6,000.00 ← 72b

250 PHARMACY \$10,000.00 ← 72c

001 TOTAL CHARGES \$20,000.00 ← 72d

42 Description 43 H/PCS/Rates 44 Sen Date 45 Sen Date 46 Non-Covered 47 Cost

74a 74b 74c 74d

figure 8

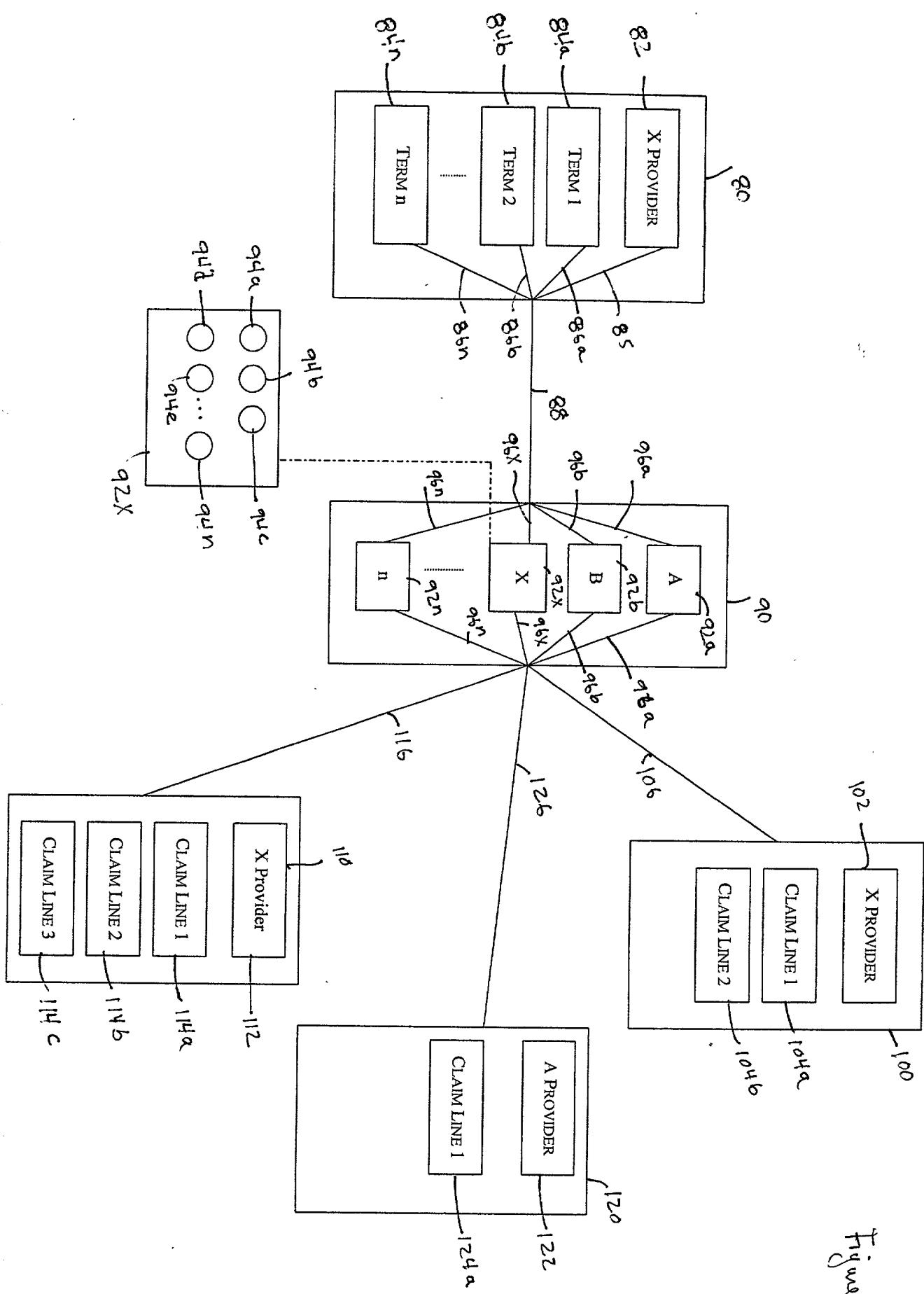


Figure 9 -

140

## **Provider Contract**

Medical Center 11-9999999  
Effective 04/01/1999

Hospital agrees to provider **Covered Hospital Services** on the payment terms set forth below.

Hospital agrees to provide all **Covered Inpatient and Outpatient Services** according to the following all inclusive per diem and discount arrangements:

\$750.00 Medical Per Diem  
\$950.00 Surgical Per Diem

Normal Delivery (Mother & Baby)  
\$1,400.00 1-2 day stay case rate  
\$450.00 each additional day

Cesarean Section (Mother & Baby)  
\$2,800.00 1-2 day stay case rate  
\$500.00 each additional day

All Other Covered Inpatient Services: 15% discount from billed charges  
Outpatient Services: 15% discount from billed charges

Stop Loss: for any case in which charges exceed \$20,000.00, hospital will be paid 85% of billed charges.

Figure 1a

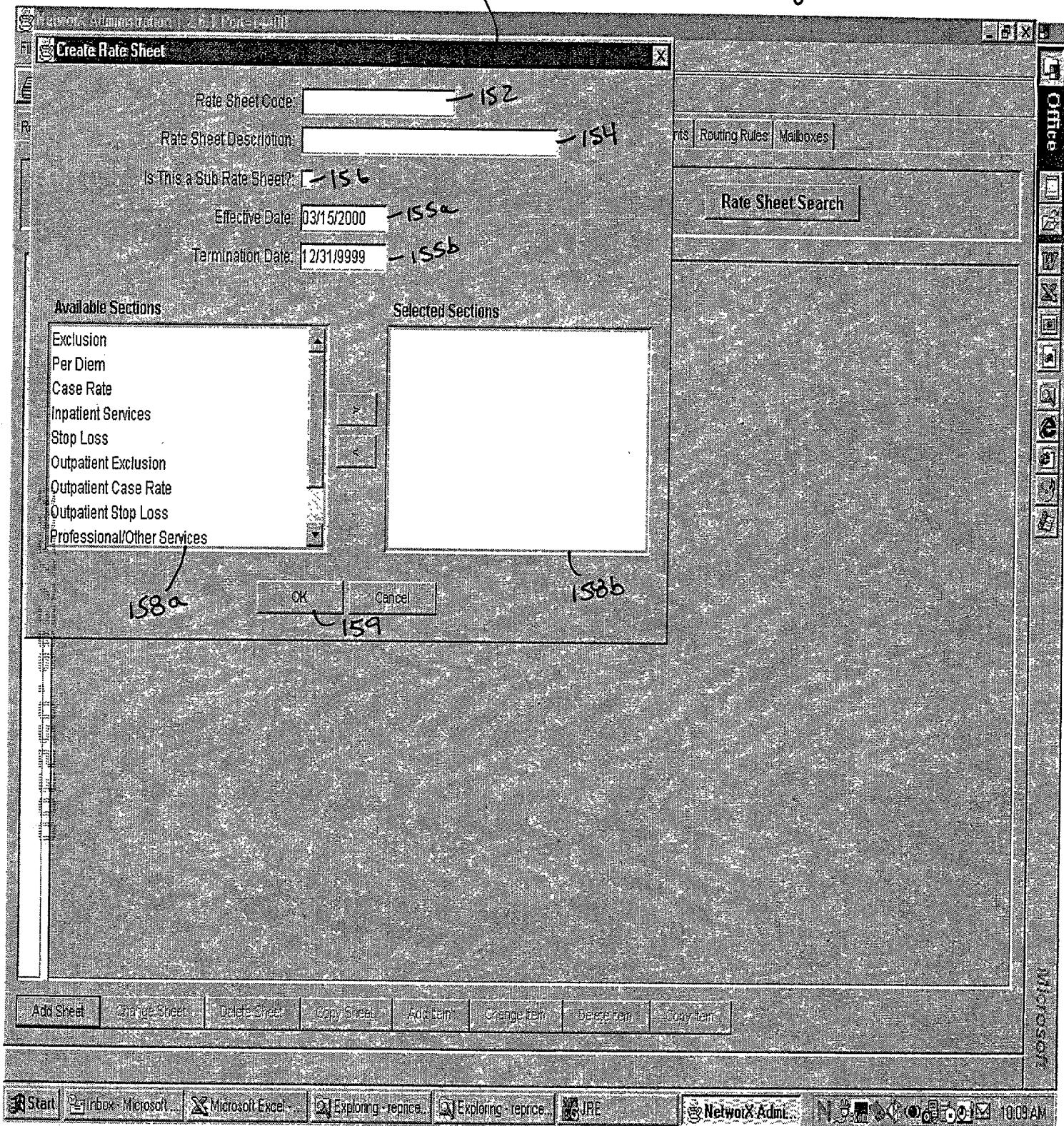


Figure 10b

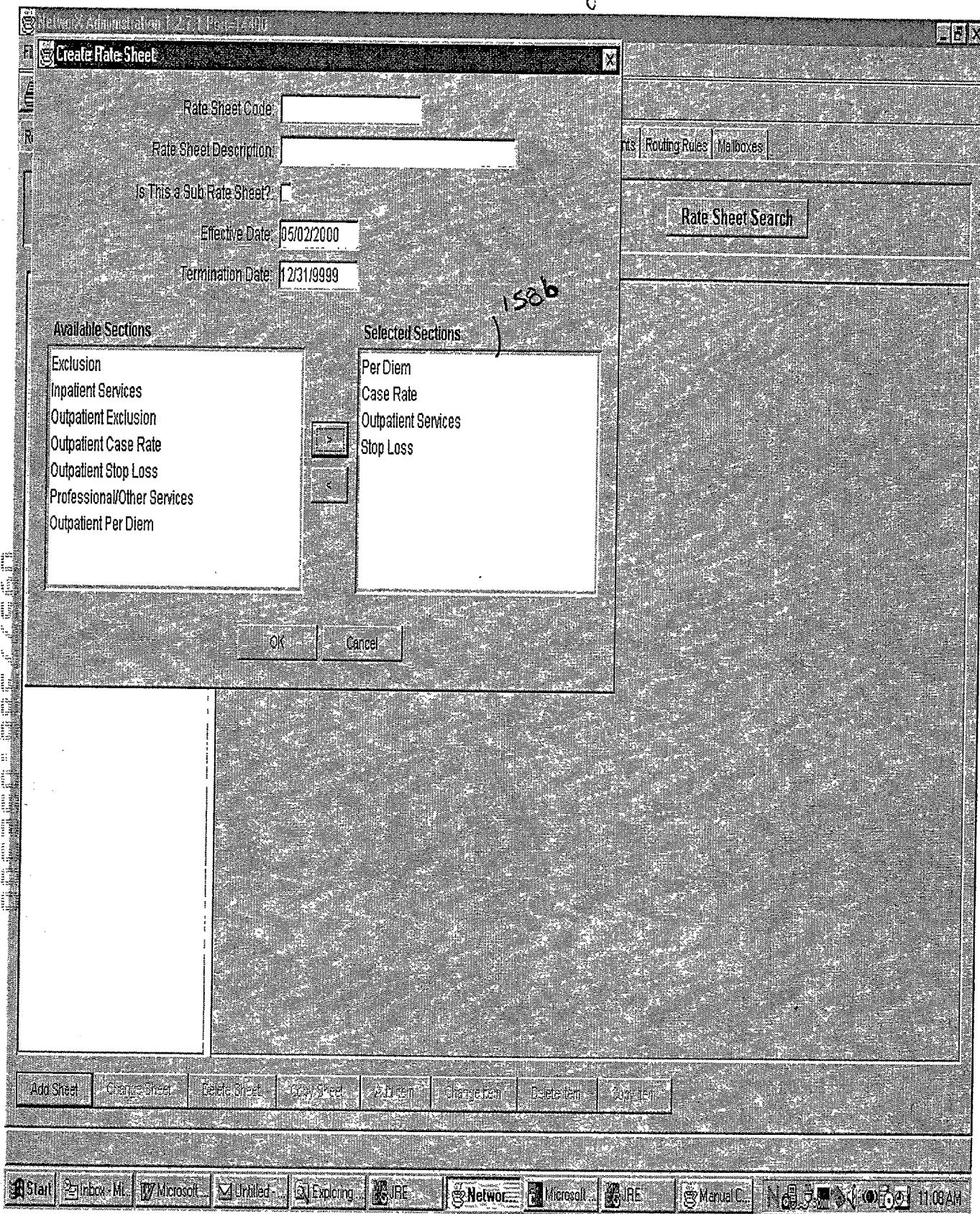


Figure 11

60 → Network Administration 1.2.7.1 Port=14400

File Help

Roles Users Networks Employers Providers RateSheets Contract Networks Calculation Categories Code Groups Clients Routing Rules Mailboxes 162

Rate Sheet: hmc Valid: 04-01-1999 through 12-31-9999 Rate Sheet Search ← 168

hmc - Medical Center

- Per Diem
- Case Rate
- Outpatient Services
- Stop Loss
- Footnotes

1. Per Diem

2. Case Rate

3. Outpatient Services

4. Stop Loss

**Footnotes**

1. This calculation will be used to reprice the entire claim.
2. This calculation will be used to reprice the current line.
3. This calculation will be used to reprice the matching line as a group.
4. When the Claim qualifies for more than one term, this price will be used if it is the smallest amount.
5. When the Claim qualifies for more than one term, this price will be used if it is the largest amount.
6. When the Claim qualifies for more than one term, this price will be used if it is the last term to qualify.
7. Please Note: No More terms will be examined for this claim line if it qualifies under the these terms.

164 → 1522 ← 166

Add Sheet Change Sheet Delete Sheet Copy Sheet 123 0137023244 Delete Item Copy Item

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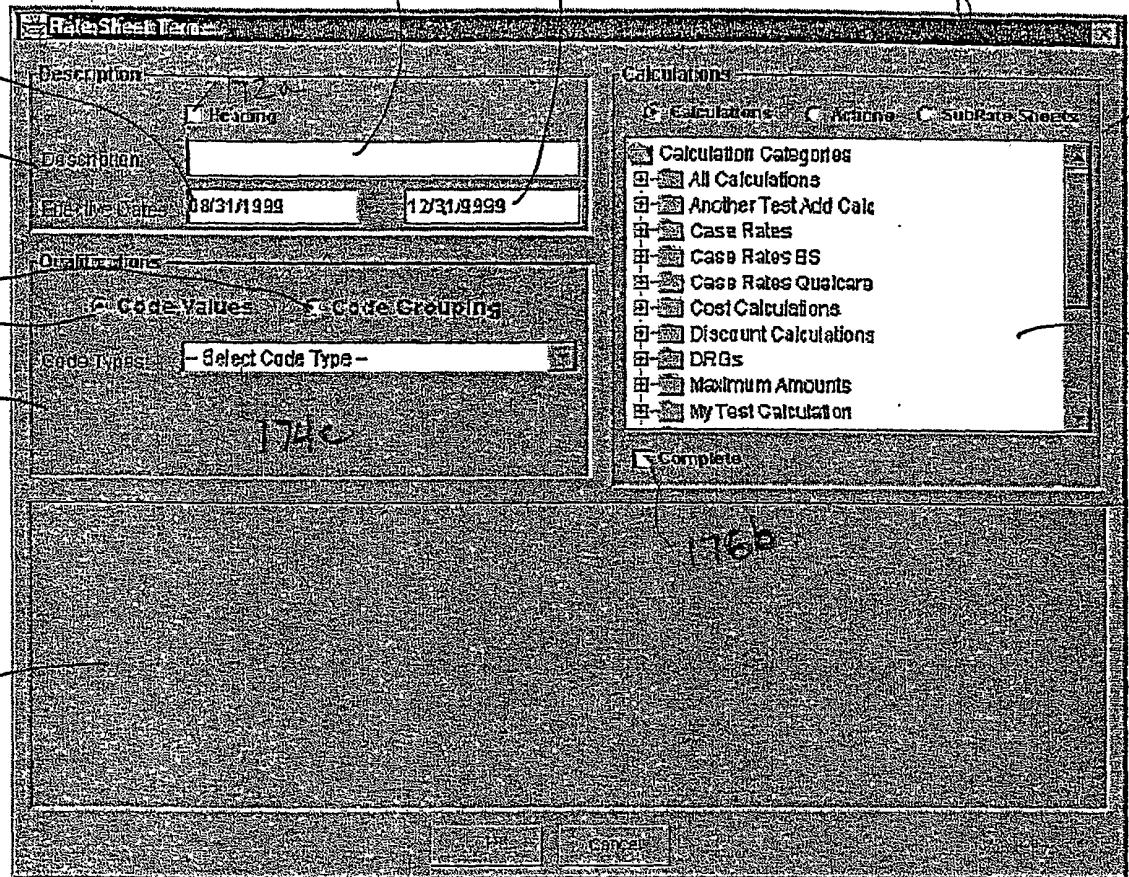


Figure 12

Qualifications

Code Values       Code Grouping

Code Types: DRG code(s)

Value Range: 103 to 109

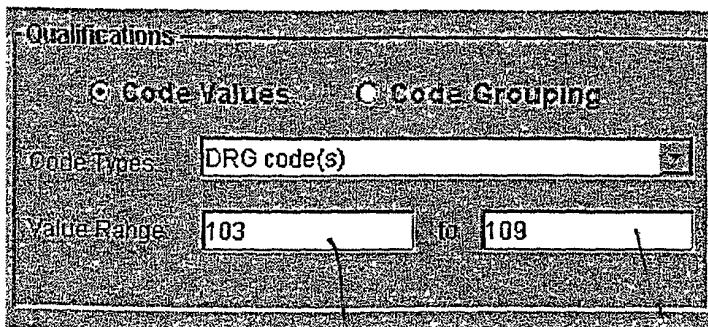


Figure 12a

175a      175b

Qualifications

Code Values       Code Grouping

Code Types: Schedule Code + P

Code Groups:

– Select Code Group –

- Acid (Acid?)
- Alc Schedule Code Values
- Alcohol & Drug
- Alcohol & Drug Day Program?
- Ambulatory Surgery
- asfgd
- Blood Factor 8 and 9

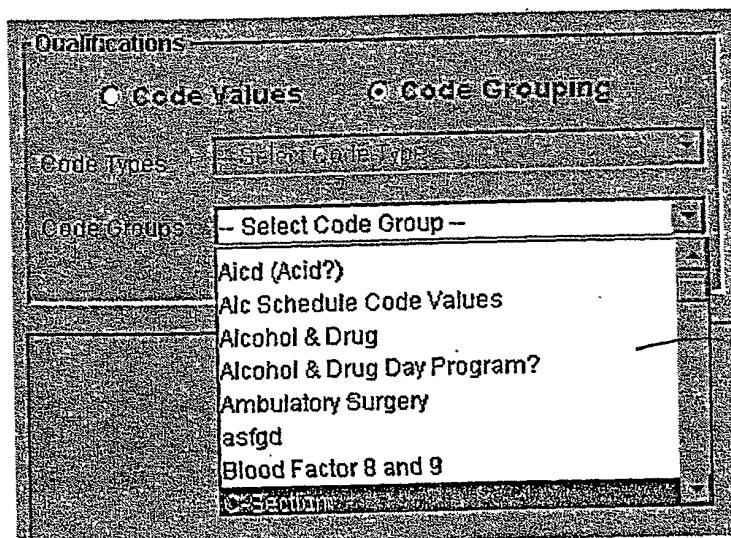


Figure 12b

177

Figure 13a

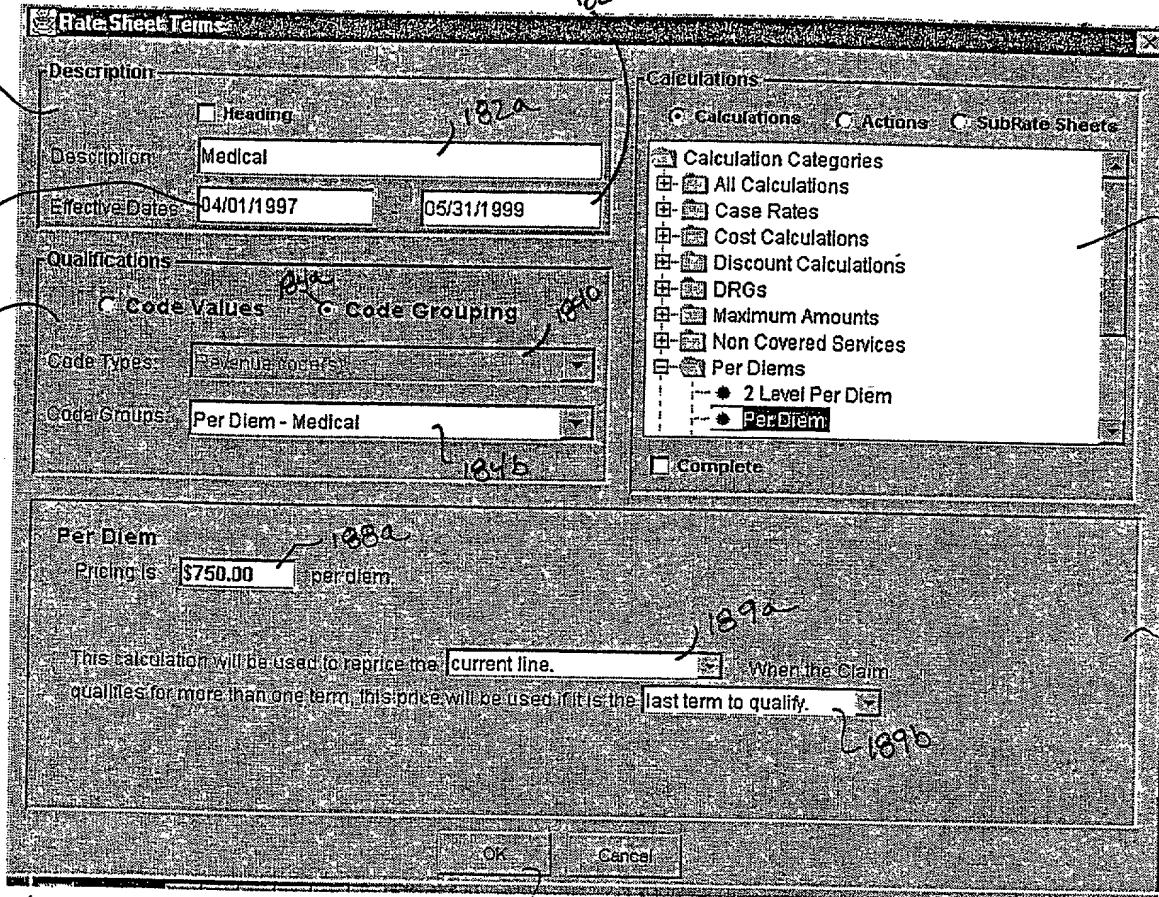


Figure 13b

198

199

Rate Sheet Terms

Description

Heading

Description: Surgical

Effective Dates: 04/01/1997 12/31/9999

Qualifications

Code Values  Code Grouping

Code Types: Rev 2002 Code Set

Code Groups: Per Diem - Surgical

Per Diem

Pricing is: \$950.00 per diem.

This calculation will be used to reduce the current line. When the claim qualifies for more than one term, this price will be used if it is the last term to qualify.

Calculations

Calculations  Actions  SubRate Sheets

All Calculations

- 2 Level Per Diem
- 2 Level Per Diem, Ltd by Pct of Chg
- 2 Level Services
- 2 Lv Case + Excess Pct, Ltd by Chg
- 2 Lv Case + PD, Ltd by Chg
- 2 Lv Case, Ltd by Chg
- 3 Lv Case + PD, Ltd by Chg
- 3 Lv Case, Ltd by Chg
- 3 Lv Per Diem

Complete

OK Cancel

Figure 13C

Network Administration 1.2.7.1 Port=14400

File Help

Roles Users Networks Employers Providers RateSheets Contract Networks Calculation Categories Code Groups Clients Routing Rules Mailboxes

Rate Sheet: hmc Valid: 04-01-1999 through 12-31-9999 Rate Sheet Search

hmc - Hardy Medical Center

Per Diem

- Case Rate
- Outpatient Services
- Stop Loss
- Footnotes

1. Per Diem

1.1 Medical

Code Group - Per Diem - Medical. Pricing is: \$750.00 per diem. -2,6

1.2 Surgical

Code Group - Per Diem - Surgical. Pricing is: \$950.00 per diem. -2,6

2. Case Rate

3. Outpatient Services

4. Stop Loss

Footnotes

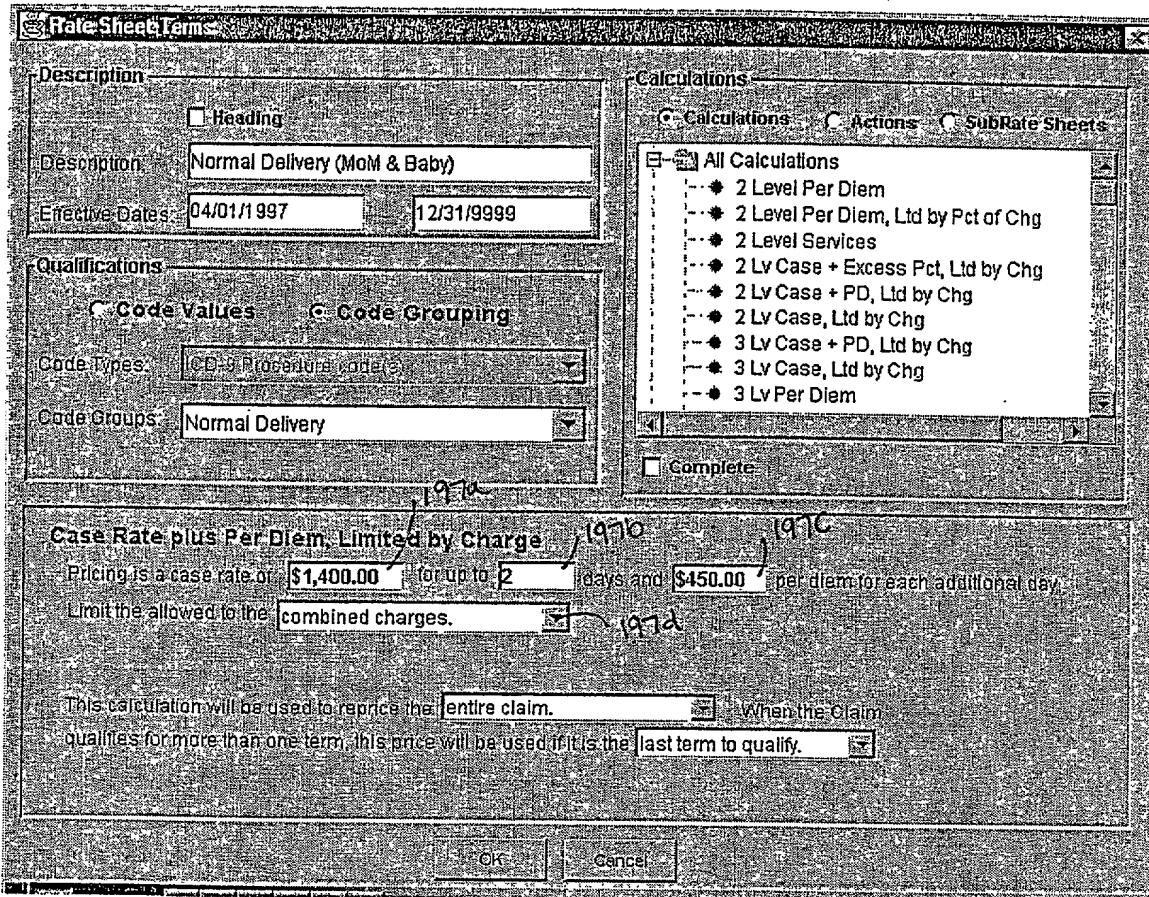
- This calculation will be used to reprice the entire claim.
- This calculation will be used to reprice the current line.
- This calculation will be used to reprice the matching line as a group.
- When the Claim qualifies for more than one term, this price will be used if it is the smallest amount.
- When the Claim qualifies for more than one term, this price will be used if it is the largest amount.
- When the Claim qualifies for more than one term, this price will be used if it is the last term to qualify.
- Please Note: No More terms will be examined for this claim/line if it qualifies under the these terms.

Editsheet Change sheet Delete sheet Cut/Copy Add item Change item Delete item Copy item

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195

Figure 14



Engine 15

**Rate Sheet Terms**

<b>Description</b>	
<input type="checkbox"/> <b>Heading</b> <b>Description:</b> C-Section (MoM & Baby)	
<b>Effective Dates:</b>	04/01/1987      12/31/9999
<b>Qualifications</b>	
<input type="radio"/> <b>Code Values</b> <input type="radio"/> <b>Code Grouping</b>	
<b>Code Types:</b>	ICD-9 Procedure Codes
<b>Code Groups:</b>	C-Section

**Calculations**

**Calculations**     **Actions**     **SubRate Sheets**

**All Calculations**  
 - - - ● 2 Level Per Diem  
 - - - ● 2 Level Per Diem, Ltd by Pct of Chg  
 - - - ● 2 Level Services  
 - - - ● 2 Lv Case + Excess Pct, Ltd by Chg  
 - - - ● 2 Lv Case + PD, Ltd by Chg  
 - - - ● 2 Lv Case, Ltd by Chg  
 - - - ● 3 Lv Case + PD, Ltd by Chg  
 - - - ● 3 Lv Case, Ltd by Chg  
 - - - ● 3 Lv Per Diem

**Complete**

**Case Rate plus Per Diem, Limited by Charge**

Pricing is a case rate of **\$2,800.00** for up to **2** days and **\$500.00** per item for each additional day.

Limit the allowed to the **combined charges.**

This calculation will be used to replace the **entire claim.**  When the Claim qualifies for more than one term, this price will be used if it is the **last term to qualify.**

**OK**      **Cancel**

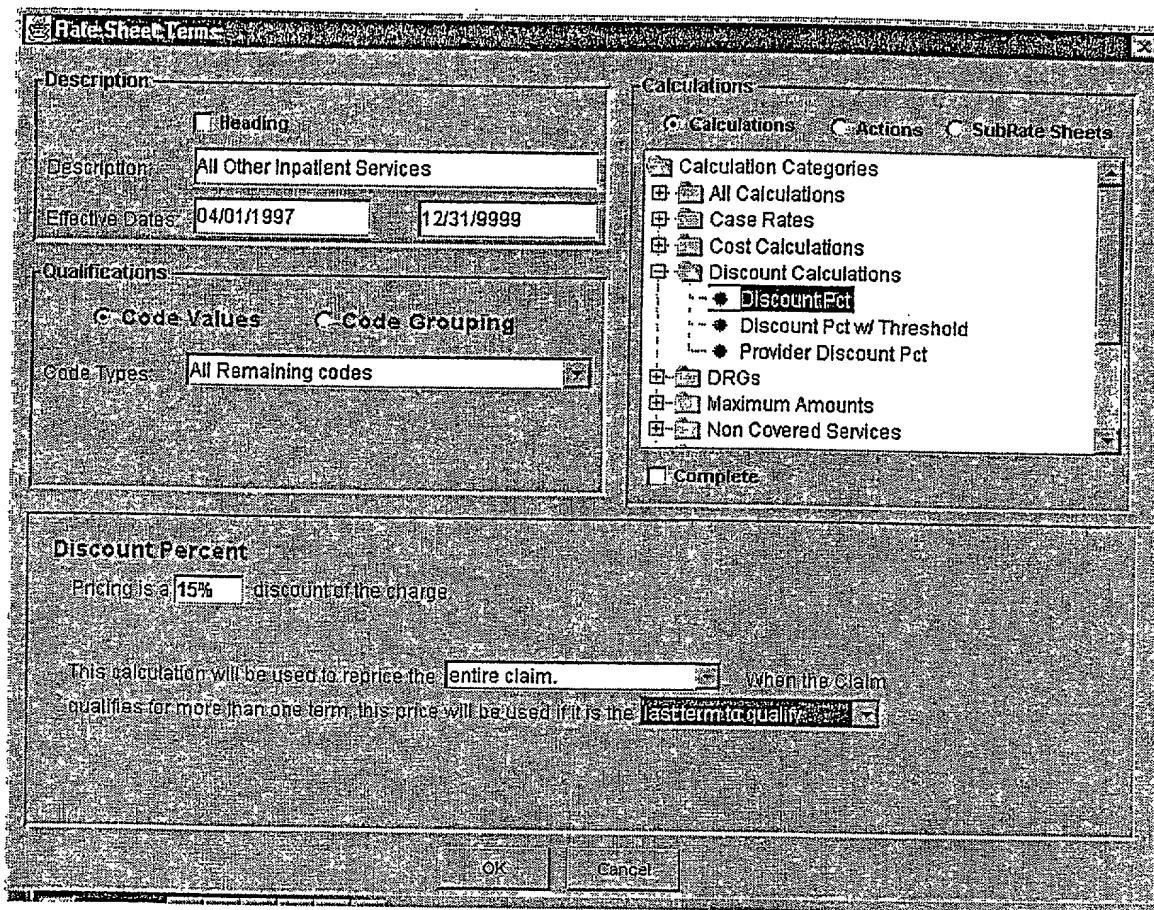


Figure 17

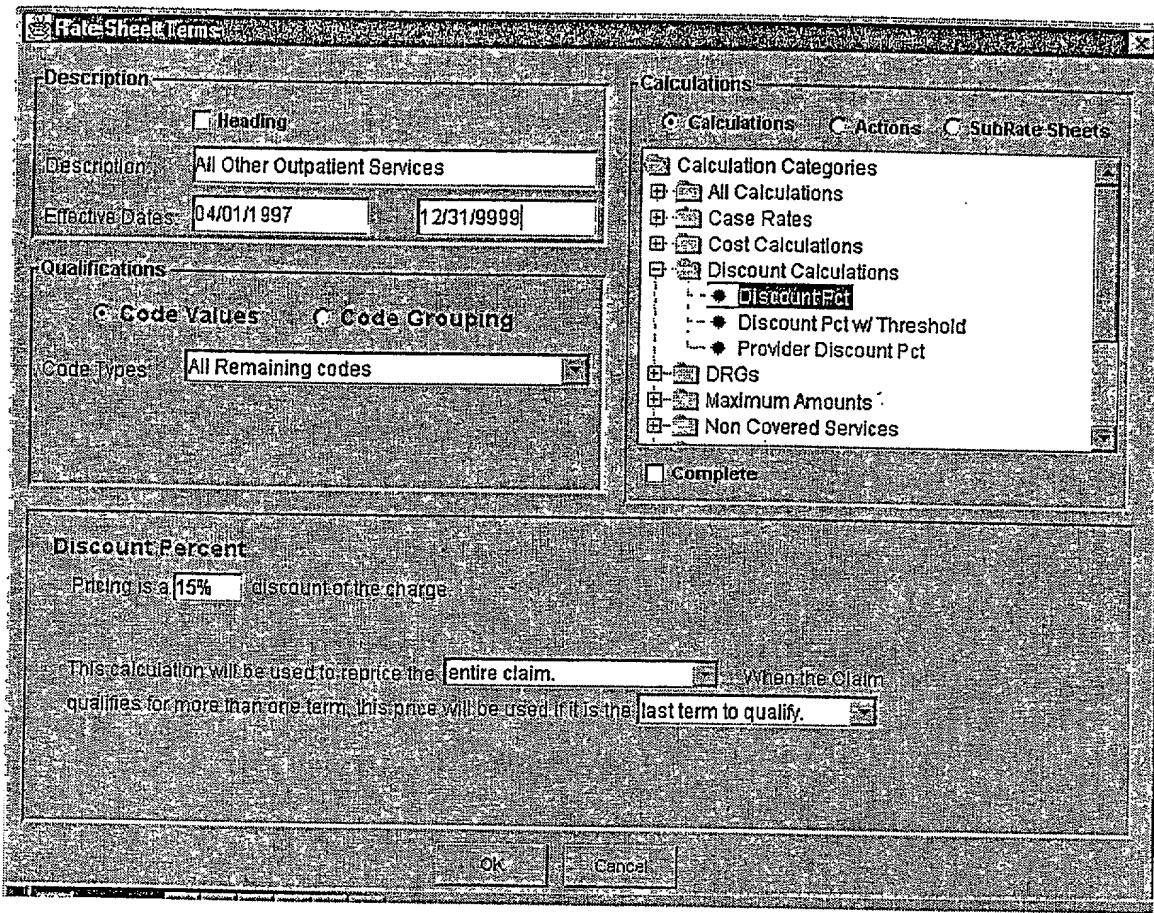
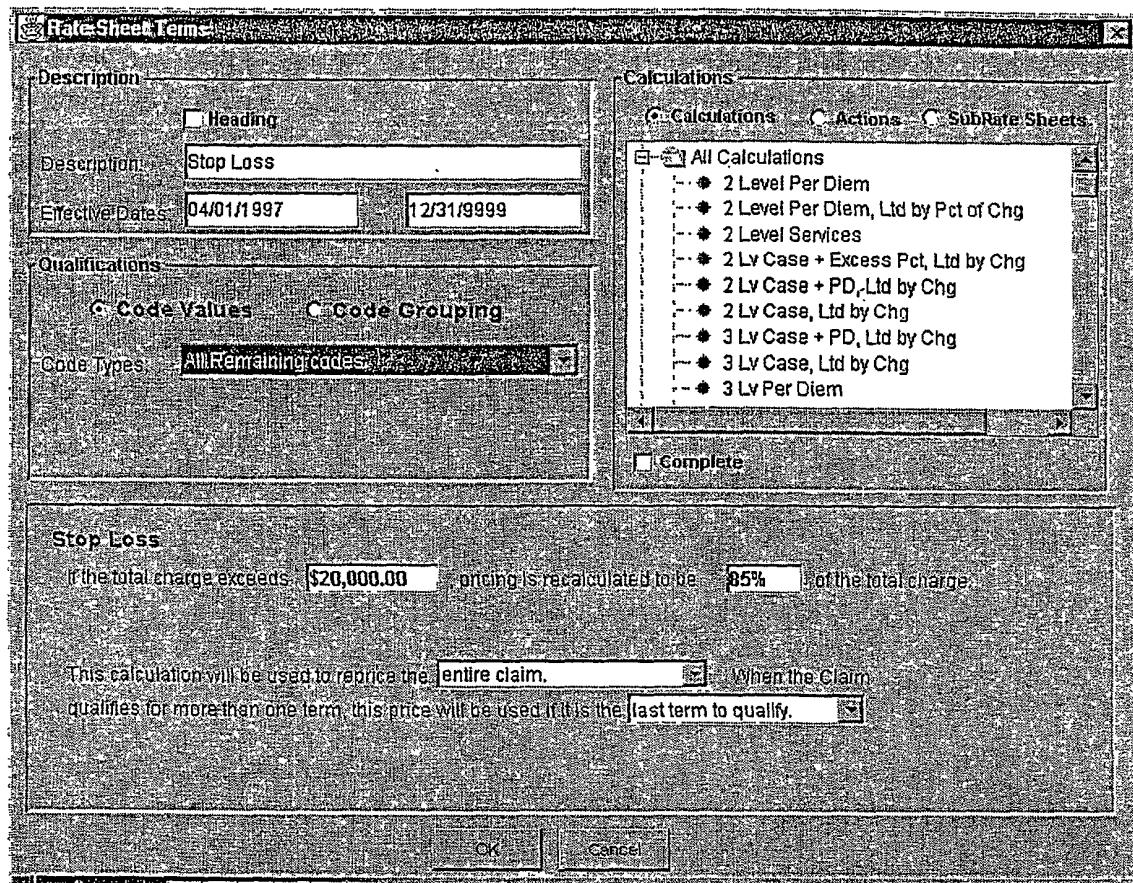


Figure 18



NetworX Administration 1.2.6.1 Port=21000

File Help

Roles Users Networks Employers Providers Rate Sheets Contract Networks Calculation Categories Code Groups Clients Routing Rules Mailboxes

Rate Sheet: djwhmc Valid: 04-01-1999 through 12-31-9999 Rate Sheet Search

200

djwhmc - Hardy Medical Center

Per Diem

1.1 Medical  
Code Group - Per Diem - Medical Pricing is \$750.00 per diem. -2,6

1.2 Surgical  
Code Group - Per Diem Surgical - complex Pricing is \$950.00 per diem. -2,6

Case Rate

2.1 Normal Delivery  
Code Group - Normal Delivery Pricing is a case rate of \$1,400.00 for up to 2 days and \$450.00 per diem for each additional day. Limit the allowed to the combined charges. -1,6

2.2 Caesarean section  
Code Group - C-Section Pricing is a case rate of \$2,800.00 for up to 2 days and \$500.00 per diem for each additional day. Limit the allowed to the combined charges. -1,6

2.3 well baby  
Code Group - Well Baby - Complex Pricing is 0% of the charge -1,6

Outpatient Services

3.1 All services  
All Services Pricing is a 15% discount of the charge -1,6

Stop Loss

4.1 well baby  
Code Group - Well Baby - Complex Nonpricing applies. -1,4,7

4.2 stop loss  
All Services. If the total charge exceeds \$20,000.00, pricing is recalculated to be 85% of the total charge. -1,6

Footnotes

Add Sheet Change Sheet Delete Sheet Copy Sheet Edit Item Change Item Delete Item Copy Item

Start Inbox Microsoft Microsoft Excel Microsoft Word Microsoft Message Microsoft Internet Explorer Microsoft Outlook NetworkX Admin Microsoft Word Microsoft Excel Microsoft Internet Explorer Microsoft Outlook 9:06 AM

NetworkX Administration 12.6.1 Port=21000

File Help

Roles Users Networks Employers Providers Rate Sheets Contract Networks Calculation Categories Code Groups Clients Routing Rules Mailboxes

Rate Sheet: djwhmc Valid: 04-01-1999 through 12-31-9999 Rate Sheet Search

**djwhmc - Hardy Medical Center**

- Per Diem
- Case Rate
- Outpatient Services
- Stop Loss
- Footnotes

**2. Case Rate**

**2.1 Normal Delivery**  
Code Group - Normal Delivery: Pricing is a case rate of \$1,400.00 for up to 2 days and \$450.00 per diem for each additional day. Limit the allowed to the combined charges. -1,6

**2.2 Caesarean section**  
Code Group - C-Section: Pricing is a case rate of \$2,800.00 for up to 2 days and \$500.00 per diem for each additional day. Limit the allowed to the combined charges. -1,6

**2.3 well baby**  
Code Group - Well Baby - Complex: Pricing is 0% of the charge. -1,6

**3. Outpatient Services**

**3.1 All services**  
All Services: Pricing is a 15% discount of the charge. -1,6

**4. Stop Loss**

**4.1 well baby**  
Code Group - Well Baby - Complex: No pricing applies. -1,6

**4.2 stop loss**  
All Services: If the total charge exceeds \$20,000.00, pricing is recalculated to be 85% of the total charge. -1,6

**Footnotes**

- This calculation will be used to reprice the entire claim.
- This calculation will be used to reprice the current line.
- This calculation will be used to reprice the matching line as a group.
- When the Claim qualifies for more than one term, this price will be used if it is the smallest amount.
- When the Claim qualifies for more than one term, this price will be used if it is the largest amount.
- When the Claim qualifies for more than one term, this price will be used if it is the last term to qualify.
- Please Note: No More terms will be examined for this claim line if it qualifies under the these terms.

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## Completed Rate Sheet

Figure 20

### Medical Center

#### 1. Inpatient Per Diem

##### 1.1 Medical

Revenue codes in Per Diem – Medical. Reprice at \$750.00 per day. -2,6

##### 1.2 Surgical

Revenue codes and CPT4 Procedure codes in Per Diem – Surgical. Reprice at \$950.00 per day. -2,6

#### 2. Inpatient Case Rate

##### 2.1 Normal Delivery 1-2 Days

ICD-9 Procedure codes in Normal Delivery. Reprice at \$1,400.00 for up to 2 days. \$450.00 per diem, thereafter. -1,6

##### 2.2 C-Section

ICD-9 Procedure codes in C-Section. Reprice at \$2,800.00 for up to 2 days. \$500.00 per diem, thereafter. -1,6

#### 3. Inpatient Services

##### 3.1 All Other Inpatient Services

All Remaining Codes. Reprice at 15% of charges. -2,6

#### 4. Outpatient Services

##### 4.1 All Other Outpatient Services

All Remaining Codes. Reprice at 15% of charges. -2,6

#### 5. Stop Loss

##### 5.1 Stop Loss

All Remaining Codes. If repriced amount exceeds \$20,000 the claim will be repriced at 85% of charges. -1,6

### Footnotes

- 1 – This calculation will be used to reprice the entire claim.
- 2 – This calculation will be used to reprice the current line.
- 3 – This calculation will be used to reprice the matching line as a group.
- 4 – When the claim qualifies for more than one term, this price will be used if it is the largest amount.
- 5 – When the claim qualifies for more than one term, this price will be used if it is the smallest amount.
- 6 – When the claim qualifies for more than one term, this price will be used if it is the last term to qualify.
- 7 – Please note: No more terms will be examined for this claim/line if it qualifies under these terms.

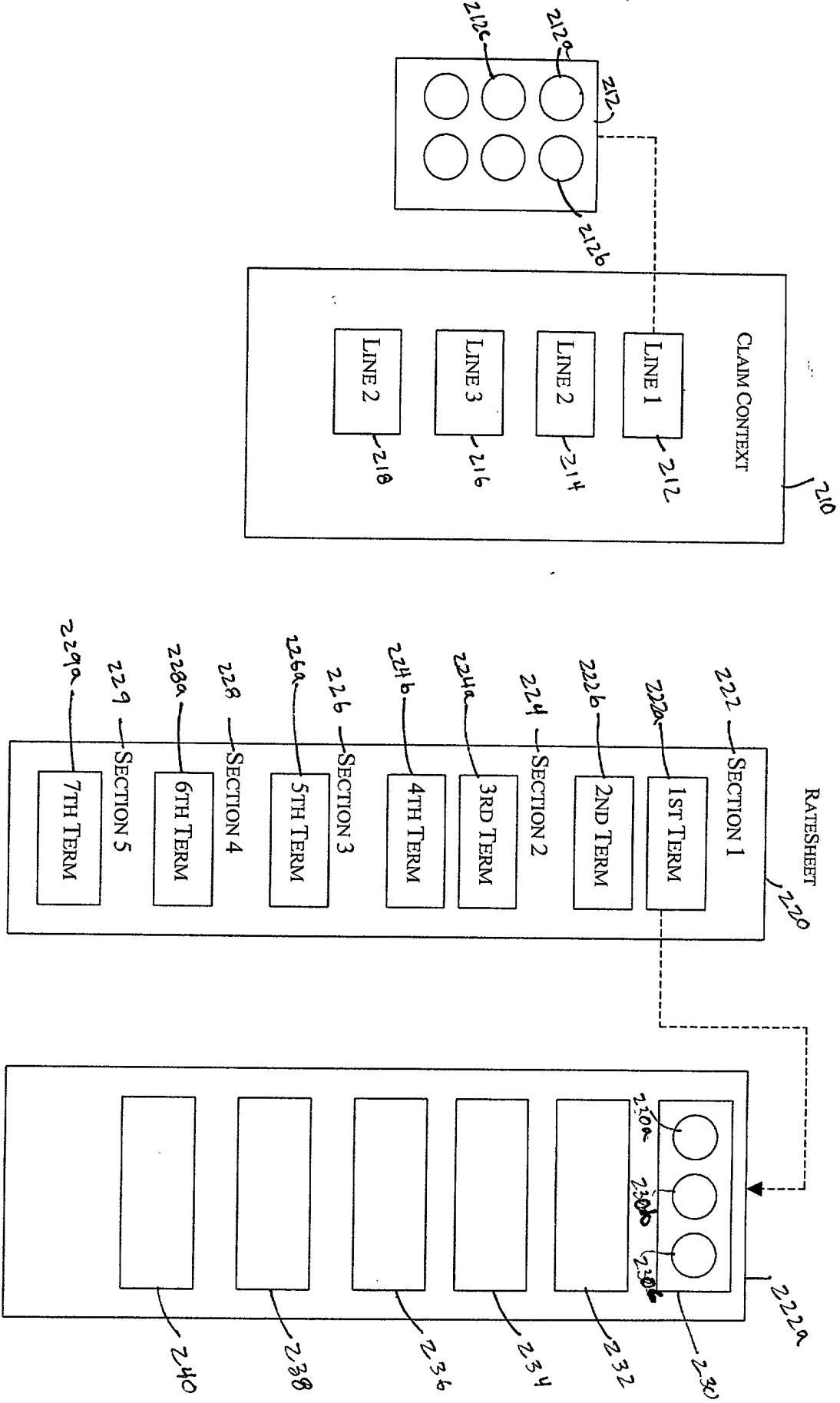


FIGURE 21

Figure 22

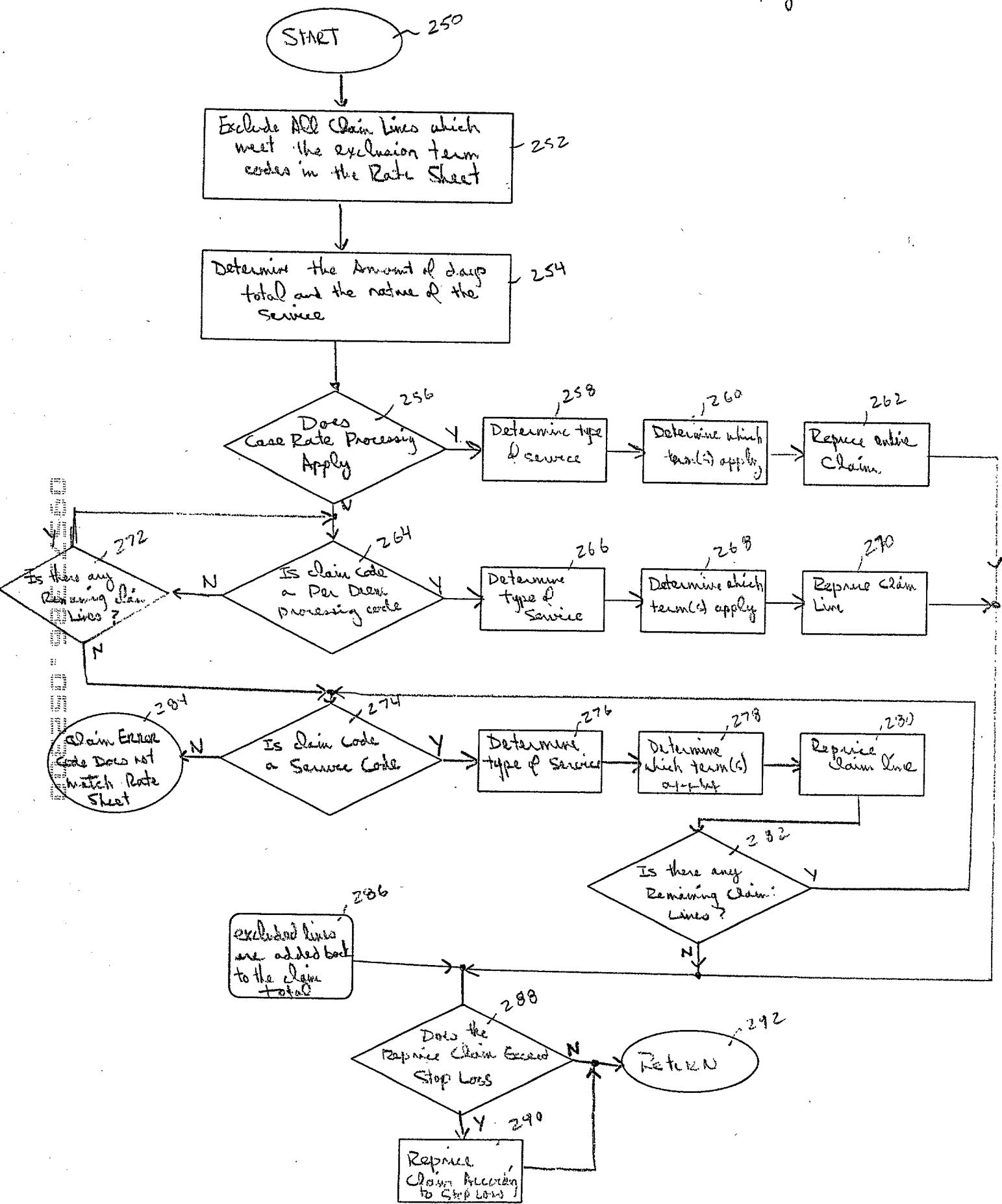
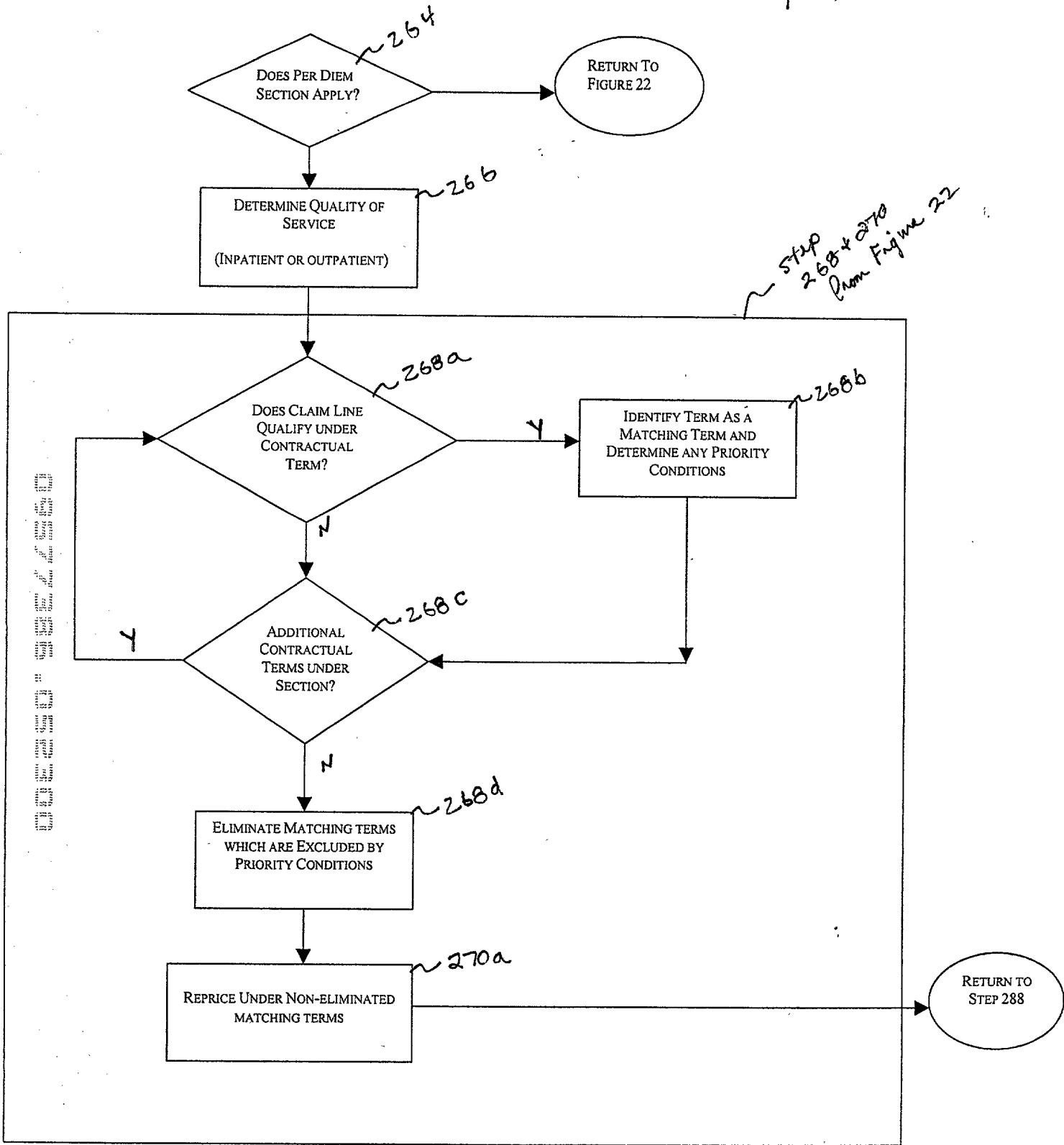


Figure 23



300

Figure 24

Repricing Worksheet		Date	03/23/2000	Page
print	exit	Worksheet No	100323CWQXVN	
		Processor	DRNALC	
<b>REPRICING WORKSHEET</b>				
Client/Carrier: UNICARE LIFE & HEALTH INSURANCE COM Member		EV	SLBYAVGDAILY1	
AUSTIN PAYPOINT (228)		Member ID	15	
POST OFFICE BOX 833933		Patient	DEB NELSON	
RICHARDSON, TX 75083		Employer	EMPLOYER ADVANTAGE	
		Policy No	130085	
Provider of Service	HARDY MEDICAL CENTER	Patient No		
TIN	11-9999999	Diagnosis	114	
Admission Date	01/09/2000	Period:	to	
<b>Rev</b>	<b>Description</b>	<b>Units</b>	<b>Not Repriced</b>	<b>Network Allowable</b>
120	MEDICAL	4	\$20,000.00	\$17,000.00
				\$3,000.00
	** Total		\$20,000.00	\$17,000.00
				\$3,000.00
THE ABOVE WAS REPRICED USING THE AMERICAN LIFECARE NEGOTIATED PRICING.				

Fig. 25a

Manual Claim Entry 1.26.1 Port=14400

File Search Help

Outbox Errors Processed All

Patient	Provider	Serv Date	Rcvd Date	Submit	Network No.	Claim No.
Dave, Example6 slbmaxlosmaxdisc4, ev fresh slbmaxlosmaxdisc4, ...	Dave E. Williams M.D. St. Michael Health Care Center St. Michael Health Care Center	1999-07-12 2000-01-09 2000-01-09	1999-12-28 2000-02-29 2000-03-22	dem emailc emailc	1003220RHJNO 100322BHWGNO 100322C2SLVP	

Received 02/29/2000 Claim No. 111

Hardy Medical Center

1305 Crowley Rayne Highway

3 Patient Control Number: 111

4 Facility: LA 70528 5 Statement Covers Period: From: 11-09-00-09-03 Through: 11-11-00-09-03 Cov D: 8 N/C: 0 C: 10 D: 0 L/R: D: 1

318-783-3222

12 Patient Name: Nelson, Deb 13 Patient Address: First: M: Street: City: State: Zipcode:

14 Birth Date: 15 Sex: 16 MS: 17 Adm Date: 18 HR: 19 Type: 20 SRC: 21 D: H22 Stat: 23 Medical Record No: 24-25-26-27-28-29-30-31 Condition Codes:

16/15/1957 01/09/2000

32 Occurrence Code: 33 Occurrence Date: 34 Occurrence Date: 35 Occurrence Date: 36 Occurrence Date: 37 Occurrence Span: From: Through: A: B: C:

38-41 First: M: 39-41 Value Codes: Code: Amount: 40-41 Value Codes: Code: Amount: 41-41 Value Codes: Code: Amount:

42 Item Code: 43 Description: 44 HCPCS/Rates: 45 Serv. Date: 46 Serv. Units: 47 Total Charge: 48 Non-Covered: 49 Cost:

120	ROOM-BOARD/SIM.			4	\$4,000.00			
350	CT SCAN			1	\$8,000.00			
250	PHARMACY				\$10,000.00			
001	TOTAL CHARGES				\$20,000.00			

Start Info File Expl. Visic. MIRE Rep. Rep. MIRE Net. MIRE Mail Web 12PM

Figure 25b

Manual Claim Entry E2G1 Port 14400

File Search Help

Outbox Errors Processed All

	Patient	Provider	Serv Date	Rcvd Date	Submit	Netwon No.	Claim No.
	Dave, Example6	Dave E. Williams M.D.	1999-07-12	1999-12-28	dem	1003220RHJNO	
	slbymaxosmaxdisc4, ev	St Michael Health Care Center	2000-01-09	2000-02-29	emalc	100322BHW6N0	
	fresh simaxosmaxdisc4...	St Michael Health Care Center	2000-01-09	2000-03-22	emalc	100322C2SLYP	

50 Payer 51 Provider No. 52 Rel 53 AGG 54 Prior Payments 55 Est. Amt Due 56

57 DUE FROM PATIENT

58 Insured's Name First MI 59 P-Rel 60 Cenr. SSN, HIC, ID No. 61 Status/Claim 62 Insurance/Group No.

Employer	ev	15	EMPLOYER ADVANTAGE	130065

63 Treatment Authorization Codes 64 ESC 65 Employer Name 66 Street 67 City 68 St 69 Zipcode

	EMPLOYER ADVANTAGE	705 ILLINOIS, #7	JOPLIN	MO	64901--

67 Prior Diagn 68 Code 69 Code 70 Code 71 Code 72 Code 73 Code 74 Code 75 Code 76 Code 77 Adm. Diagn 77 E-Code

250									

79 PC Other Procedure Code Date 80 Other Procedure Code Date 81 Other Procedure Code Date 82 Attending Phys ID

77							

83 Other Phys ID Other Phys ID


84 Remarks

85 Provider Representative 86 Date

	11
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320

Figure 26

Repricing Worksheet

Date 03/23/2000 Page

Worksheet No 100323CZ7XVP

Processor DRNALC

**REPRICING WORKSHEET**

**Client/Carrier:** UNICARE LIFE & HEALTH INSURANCE COM Member EV SLBYAVGDAILY1  
 AUSTIN PAYPOINT (228) Member ID 15  
 POST OFFICE BOX 833933 Patient DEB NELSON  
 RICHARDSON, TX 75083 Employer EMPLOYER ADVANTAGE  
 Policy No 130085

**Provider of Service** HARDY MEDICAL CENTER **Patient No**  
**TIN** 11-9999999 **Diagnosis** 780  
**Admission Date** 01/09/2000 **Period:**  to

Rev Code	Description	Units	Charge	Not Repriced	Discount	Network Allowable
120	NORMAL DELIVERY	4	\$20,000.00	\$0.00	\$17,700.00	\$2,300.00
	<b>** Total</b>		<b>\$20,000.00</b>	<b>\$0.00</b>	<b>\$17,700.00</b>	<b>\$2,300.00</b>

THE ABOVE WAS REPRICED USING THE AMERICAN LIFECARE NEGOTIATED PRICING.

Print Back  Network No  Claim No

Start Info File Export Billing Exposure Report Repayment Exposure Net Exposure Memo EW Mail Help Options (0-5) 4:10 PM

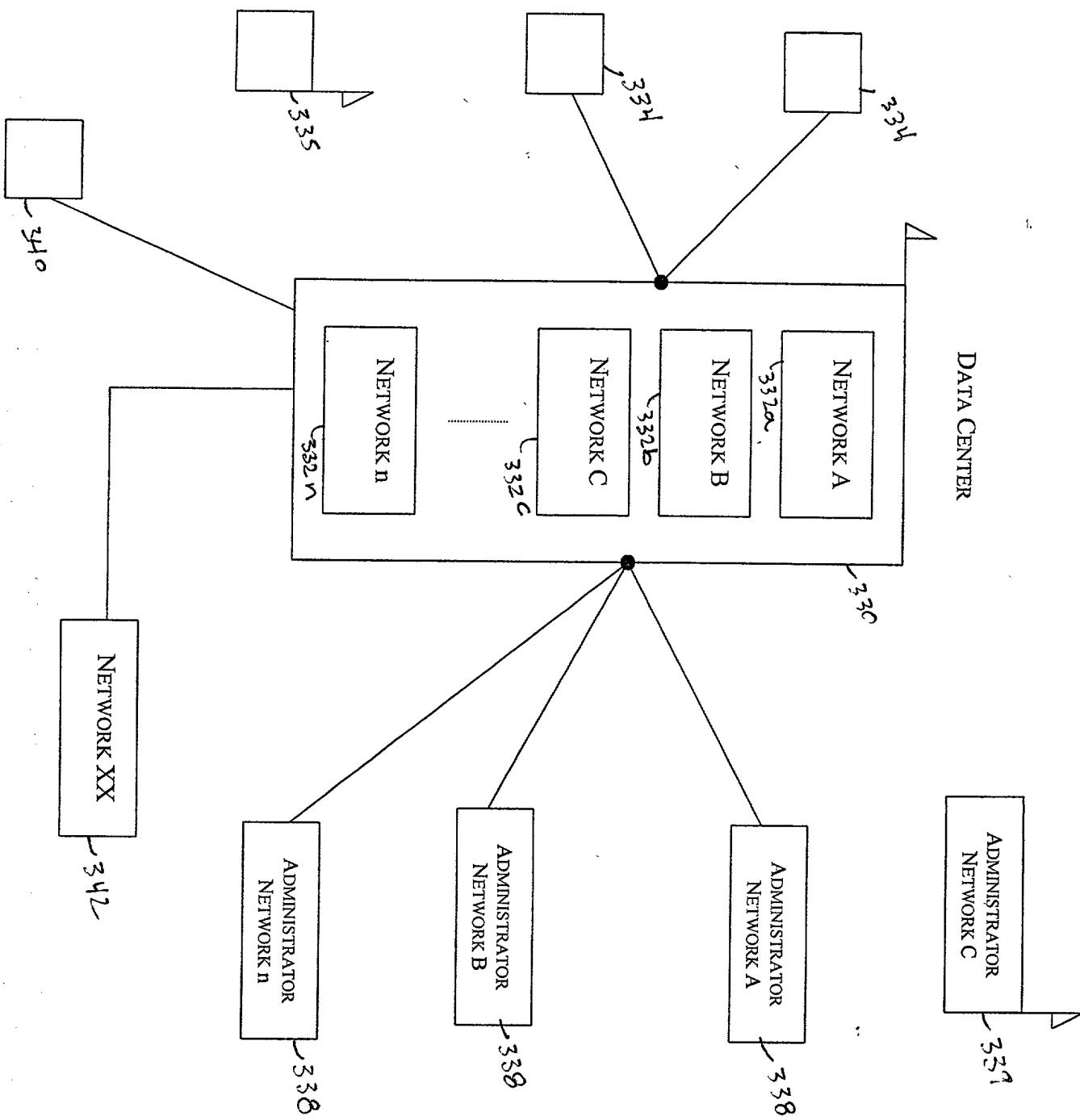


Figure 27

---

**COMBINED DECLARATION AND POWER OF ATTORNEY**

---

As the below named inventors, we hereby declare that:

This declaration is for an original application.

Our residence, post office address and citizenship are as stated below, next to our name. We believe that we are the original, first and joint inventors of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**A NOVEL METHOD AND APPARATUS FOR REPRICING  
A REIMBURSEMENT CLAIM AGAINST A CONTRACT**

described and claimed in the specification attached hereto. We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. We hereby state that we do not believe that the same was ever known or used in the United States of America before our invention thereof, or patented or described in any printed publication in any country before our invention thereof or more than one year prior to any this application; that the same was not in public use or on sale in the United States of America more than one year prior to this application; that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by us or our legal representative or assigns more than twelve months prior to this application; and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by us or our legal representative or assigns.

We acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent.

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

We hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

**PROVISIONAL APPLICATION NUMBER**

60/159,306

**FILING DATE**

10/14/1999

**POWER OF ATTORNEY**

We hereby appoint Marvin N. Benn (Reg. No. 26,705), Stephen J. Cassin (Reg. No. 34,098) and Adam K. Sacharoff (Reg. No. 43,075) as our attorneys and member of the firm HAMMAN & BENN, 10 S. LaSalle St., Suite 3300, Chicago, IL 60603, telephone number (312) 372-2920, members of the Bar of the State of Illinois, and patent agent Milton S. Gerstein (Reg. No. 27,891) of the same address, as our patent agent, with full power and revocation, to prosecute this application, and to transact all business in the Patent and Trademark Office connected therewith. It is requested that all correspondence to Marvin N. Benn at the above address.

**SIGNATURE(S)**

Inventor: Mark Lesswing Country of Citizenship USA

Inventor's signature M A L Date 5/3/00

Residence 4N 639 Knoll Creek  
St Charles, IL 60175

Inventor: Dale Hoerle Country of Citizenship USA

Inventor's signature Dale Hoerle Date 5/19/00

Residence 6015 Ricket Court  
Lisle, IL 60532